



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>WILLIAM JEWELL COLLEGE</b>	EDUCATOR PREPARATION PROGRAM CODE <b>062273</b>
--	--

**\*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>  EDU 275  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 - Instructional Design & Assessment (4 credit course) - Differentiated Instruction (4 credit course)	1.00   2.00  *
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 220 or EDU 216 <i>(transition)</i>  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 - Disciplinary Literacy & Methods of Instruction (5 credit course)	1.00   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 (transition)  EDU 275  EDU 280	- High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) last offered 14-15 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 (transition)  EDU 501	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) last offered in 14-15 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 (transition)	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) last offered in 14-15	1.00
b. Psychology/Education of the Exceptional Child	EDU 206 or EDU 234 (transition)	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) last offered in 14-15	2.00
c. Differentiated Learning	EDU 501	- Differentiated Instruction (4 credit course)	2.00
d. Classroom Management	EDU 220 or EDU 216 (transition)  EDU 501	- High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) last offered 14-15 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 or 2.00 or 4.00
f. Educational Psychology	EDU 206 or EDU 234 (transition)  EDU 220 or EDU 216 (transition)  EDU 501	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) last offered in 14-15 AND - High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) last offered 14-15 AND - 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. Mathematics Content Knowledge Area (Minimum of 36 semester hours)			
	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (nine semester hours)	CTI 109	- Calculus I (4 credit course)	4.00
	MAT 200	- Calculus II (4 credit course)	4.00
	MAT 201	- Calculus III (4 credit course)	4.00
2. Algebraic Structures (three semester hours)	MAT 347	- Abstract Algebra (4 credit course)	4.00
3. Geometry (three semester hours)	MAT 301	- College Geometry (4 credit course)	4.00
4. Computer Science (three semester hours)	MAT 190	- Introductions to Computer Science (4 credit course)	4.00
5. Electives from the above coursework (six semester hours)	MAT 202	- Differential Equations (4 credit course)	4.00
		Additional credits from above	
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 320	- History of Mathematics	4.00 **
b. Structure of the Real Number System (three semester hours)	MAT 290	- Bridge to Advanced Mathematics (required in the major)	4.00
c. Number Theory (three semester hours)			
d. Completion of Calculus Sequence (three semester hours)	MAT 302	- Calculus IV	4.00 **
e. Probability and Statistics (three semester hours)	MAT 305	- Introduction to Probability	4.00 **
f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)	MAT 281	- Applied Linear Algebra (required in major)	4.00
<b>Content Knowledge Area - Total Semester Hours</b>			<b>40.00</b>

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), 6<sup>th</sup> 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](mailto:civilrights@dese.mo.gov).

\*\*Required to take either MAT 302, MAT 305, or MAT 320