



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME HARRIS-STOWE STATE UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 300194
--------------------------------------------------------------------	---------------------------------------------

**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	EDUC0365I	Methods of Teaching Secondary Mathematics: Content	.67 (2)
b. Instructional Strategies and Techniques in Content Area Specialty	EDUC0365I	Methods of Teaching Secondary Mathematics: Content	.67 (2)
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC0407	Classroom Assessment of Student Learning	.75 (3)
d. Strategies for Content Literacy	EDUC0347B	Content Area Reading	0 (3)
	EDUC 0345	Reading and Writing in the Middle and Secondary Content Area	0 (3)
e. Critical Thinking and Problem Solving	EDUC0407	Classroom Assessment of Student Learning	1 (3)
	EDUC0223	Computers and Instructional Technology	1.5 (3)
f. English Language Learning	EDUC0318	Cultural Diversity and Methods of Teaching English Language Learners	1.5 (3)

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY0308	Human Growth and Development	3
b. Psychology/Education of the Exceptional Child	PSY0312	Psychology/Education of the Exceptional Child	3
c. Differentiated Learning	EDUC0365I	Methods of Teaching Secondary Mathematics: Content	1 (2)
	EDUC0230	Middle/Junior and Senior High School Philosophy, Organization, and Curriculum	.75 (4)
	EDUC0223	Computers & Instructional Technology	1.5 (3)
d. Classroom Management	EDUC0401B	Middle and Secondary Classroom Organization and Management	2.5 (3)
e. Cultural Diversity	EDUC0318	Cultural Diversity and Methods of Teaching English Language Learners	1.5 (3)
f. Educational Psychology	PSY0305	Educational Psychology	3

**3. Schools and the Teaching Profession**

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDUC0230	Middle/Junior and Senior High School Philosophy, Organization, and Curriculum	.75 (4)
	EDUC0407	Classroom Assessment of Student Learning	.75 (3)
b. Legal/Ethical Aspects of Teaching	EDUC0230	Middle/Junior and Senior High School Philosophy, Organization, and Curriculum	.75 (4)
	EDUC0407	Classroom Assessment of Student Learning	.75 (3)

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDUC 0345	Reading and Writing in the Middle and Secondary Content Area	3
b. Instructional Interventions for Students with Reading Deficits	EDUC0347B	Content Area Reading	3
<b>Professional Requirements - Total Semester Hours</b>			<b>32</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)	EDUC0401B	Middle and Secondary Classroom Organization and Management (30 clock hours)	1 (3)
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDUC0347B	Content Area Reading (20 clock hours)	0 (3)
	EDUC0351	Methods of Teaching Middle and Secondary Mathematics: Content Applications (60 clock hours)	2
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDUC0402III	Supervised Student Teaching	12
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>15</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)	MATH0170	Calculus and Analytic Geometry I	5
	MATH0241	Calculus and Analytic Geometry II	5
2. Algebraic Structures (three semester hours)	MATH0320	Modern Algebra I	3
3. Geometry (three semester hours)	MATH0160	Concepts of Geometry	3
4. Computer Science (three semester hours)	MATH0270	Introduction to Programming	3
5. Electives from the above coursework (six semester hours)	MATH0140	Trigonometry (3)	6
	MATH0321	Modern Algebra II (3)	
	MATH0356	Linear Algebra I (3)	
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)			
b. Structure of the Real Number System (three semester hours)	MATH0201	Discrete Math I	3
c. Number Theory (three semester hours)			
d. Completion of Calculus Sequence (three semester hours)	MATH0242	Calculus and Analytic Geometry III	5
e. Probability and Statistics (three semester hours)	MATH0250	Data Analysis and Statistics	3
	MATH0255	Introductory Statistics Lab	1
f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)			
<b>Content Knowledge Area - Total Semester Hours</b>			<b>37</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).