



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>TRUMAN STATE UNIVERSITY – MASTER OF ARTS IN EDUCATION (MAE)</b>	EDUCATOR PREPARATION PROGRAM CODE <b>122122</b>
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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	ED 393 STEM 608 G ED 609 G SED 632 G	Clinical Experiences in Teaching Management of Instruction Internship Instructional Strategies	3 3
b. Instructional Strategies and Techniques in Content Area Specialty	STEM 608 G ED 603 G	Management of Instruction Content Academic Literacy	3
c. Assessment, Student Data, and Data-Based Decision-Making	ED 601 G ED 632 G	Measurement and Evaluation Research/Applied Educational Psychology	3 4
d. Strategies for Content Literacy	ED 603 G	Content Academic Literacy	
e. Critical Thinking and Problem Solving	ED 389 ED 393 ENG 190 STEM 608 G	Foundations of Education Clinical Experiences in Teaching Writing as Critical Thinking Management of Instruction	3
f. English Language Learning	ED 603 G	Content Academic Literacy	

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	ED 593 ED 605 G	Psychological Foundations of Education Psychology of Exceptional Children	3
b. Psychology/Education of the Exceptional Child	ED 605 G	Psychology of Exceptional Children	3
c. Differentiated Learning	ED 609 G ED 632 G ED 393 STEM 608 G ED 593	Internship Research/Applied Education Psychology Clinical Experiences in Teaching Management of Instruction Psychological Foundations of Education	
d. Classroom Management	ED 393 STEM 608 G ED 593	Clinical Experiences in Teaching Management of Instruction Psychological Foundations of Education	

e. Cultural Diversity	ED 388 ED 389 ED 393 ED 593 ED 603 G STEM 608 G	Exploratory Field Experiences Foundations of Education Clinical Experiences in Teaching Psychological Foundations of Education Content Academic Literacy Management of Instruction	
f. Educational Psychology	ED 593 ED 632 G	Psychological Foundations of Education Research/Applied Education Psychology	
<b>3. Schools and the Teaching Profession</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Consultation and Collaboration	ED 393 STEM 608 G	Clinical Experiences in Teaching Management of Instruction	
b. Legal/Ethical Aspects of Teaching	ED 389 ED 593	Foundations of Education Psychological Foundations of Education	3

<b>4. Secondary Literacy (Minimum of six semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Reading and Writing in the Content Area	ED 603 G	Content Academic Literacy	
b. Instructional Interventions for Students with Reading Deficits	ED 624 G	Instructional Interventions for Secondary Students with Reading Deficiencies	3
<b>Professional Requirements - Total Semester Hours</b>			<b>31</b>

<b>B. Field and Clinical Experiences (Minimum of ten semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	ED 388	Exploratory Field Experiences	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	ED 394 STEM 608 G	Experiences in Classroom Teaching Management of Instruction	1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	ED 609 G	Internship	8-17
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>10-17</b>

<b>C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. Calculus and Analytical Geometry (nine semester hours)	MATH 198 MATH 263	Analytical Geometry and Calculus I Analytical Geometry and Calculus II	5 (required) 5 (required)
2. Algebraic Structures (three semester hours)	MATH 451	Algebraic Structures I	3 (required)
3. Geometry (three semester hours)	MATH 363	College Geometry	3 (required)
4. Computer Science (three semester hours)	CS 170 <u>or</u> CS 180	Intro to Computer Science Foundations of Computer Science I	4
5. Electives from the above coursework (six semester hours)	MATH 264 MATH 462	Analytical Geometry and Calculus III Advanced Calculus II	3 (required) 3 (optional)
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)	MATH 455 <u>or</u> MATH 456	History of Mathematics I History of Mathematics II	3 (required)
b. Structure of the Real Number System (three semester hours)	MATH 200	Foundations of Mathematics	3 (required)
c. Number Theory (three semester hours)	MATH 454	Theory of Numbers	3 (optional)
d. Completion of Calculus Sequence (three semester hours)	MATH 461	Advanced Calculus I	3 (required)

e. Probability and Statistics (three semester hours)	STAT 290	Statistics	3 (required)
f. Computer Science (three semester hours)			
g. Linear Algebra	MATH 357	Linear Algebra	3 (required)
<b>Content Knowledge Area - Total Semester Hours</b>			<b>38-44</b>

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