



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>MISSOURI BAPTIST UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>041538</b>
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**INSTRUCTIONS**

Please complete Educator Preparation Program (EPP) Name & EPP Code above. The EPP Code may be located at <https://dese.mo.gov/sites/default/files/EPP-Code-Name.pdf>

**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**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Curriculum and Instructional Planning	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
b. Instructional Strategies and Techniques in Content Area Specialty	EDMS 473/573	Teaching Mathematics for Middle/Secondary: Seminar and Field Experience	3
c. Assessment, Student Data, and Data-Based Decision-Making	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
d. Strategies for Content Literacy	EDRD 423/523	Integration of Literacy in the Content Areas	2
e. Critical Thinking and Problem Solving	EDUC 201	Professional Growth and Folio Development	1
	EDUC 303	Methods of Teaching and Differentiated Instruction	1
	EDUC 373 OR EDUC 573	Technology and Instructional Media OR Applications of Technology in Teaching and Learning	3
f. English Language Learning	EDUC 203	Teaching in a Diverse Society: Seminar and Field Experience	1
	EDRD 423/523	Integration of Literacy in the Content Areas Students transferring in a course for EDRD 423/523 which does not include a field experience working with English language learners must complete EDCL 420/520 Field Experience with English Language Learners.	1

**2. Individual Student Needs**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Psychological Development of the Child and Adolescent	PSYC 313 OR	Human Growth and Development OR	3
	PSYC 553	Advanced Human Development	1
	EDPS 383 EDPS 453/553	Psychology of Teaching and Learning The Exceptional Child	1
b. Psychology/Education of the Exceptional Child	EDPS 453/553	The Exceptional Child	2
c. Differentiated Learning	EDUC 303	Methods of Teaching and Differentiated Learning	2
d. Classroom Management	ETOP 423/523	Classroom and Behavior Management	2

e. Cultural Diversity	EDUC 203	Teaching in a Diverse Society: Seminar and Field Experience Students transferring in a course for EDUC 203 which does not include an embedded diversity field experience, must complete EDCL 200 Teaching in a Diverse Society Field Experience.	2
f. Educational Psychology	EDPS 383	Psychology of Teaching and Learning	1
<b>3. Schools and the Teaching Profession</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Consultation and Collaboration	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
	EDPS 383	Psychology of Teaching and Learning	0.5
	EDUC 210 AND 410/510	Teaching Field Experience I and II Seminar	0
	EDUC 401	Professional Growth and Folio Development II	1
	ETOP 423/523	Classroom and Behavior Management	0.5
b. Legal/Ethical Aspects of Teaching	EDPS 383	Psychology of Teaching and Learning	0.5
	EDUC 410/510	Teaching Field Experience II Seminar	0
	ETOP 423/523	Classroom and Behavior Management	0.5
<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	EDRD 423/523	Integration of Literacy in the Content Areas	3
b. Instructional Interventions for Students with Reading Deficits	EDRD 463/563	Reading and Writing Strategies for Middle/Secondary Content Areas	3
<b>Professional Requirements - Total Semester Hours</b>			<b>35</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)	EDCL 211	Teaching Field Experience I	1
	EDUC 210	Teaching Field Experience I Seminar	0
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDCL 411/511	Teaching Field Experience II	1
	EDUC 410/510	Teaching Field Experience II Seminar	0
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	ESCL 4712/5712	Student Teaching: Secondary	12
	EDUC 471	Student Teaching Seminar	1
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>15</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 164	Calculus I	4
	MATH 254	Calculus II	4
	MATH 264	Calculus III	1
2. Algebraic Structures (three semester hours)	MATH 333	Algebraic Structures	3
3. Geometry (three semester hours)	MATH 323	Foundations of Geometry	3
4. Computer Science (three semester hours)	BCSC 253	C++ Programming for Science and Mathematics	3
5. Electives from the above coursework (six semester hours)	MATH 264	Calculus III	3
	MATH 363	Differential Equations	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)	MATH 433	Mathematics Seminar	3
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)	MATH 213	Discrete Mathematics	3
	MATH 313	Elementary Number Theory	3
d. Completion of Calculus Sequence (three semester hours)	MATH 453A	Advanced Calculus I	3
	MATH 453B	Advanced Calculus II	3
e. Probability and Statistics (three semester hours)	MATH 243	Probability and Statistics	3
	MATH 343	Statistical Methods	3

f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)	MATH 353	Linear Algebra	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>36</b>

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