



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>SOUTHEAST MISSOURI STATE UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>120120</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**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Curriculum and Instructional Planning	ED280	Introduction to Education as a Profession	0.5
	SE350	Pedagogy 1 Principles of Effective Teaching in Middle and Secondary	0.5
	SE365	Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology	0.5
	SE385	Pedagogy 3 Advanced Methods of Middle and Secondary Teaching	.25
	SE311	Techniques of Teaching High School Mathematics	1
b. Instructional Strategies and Techniques in Content Area Specialty	EF400	Seminar in Educational Issues	.25
	SE311	Techniques of Teaching High School Mathematics	1
c. Assessment, Student Data, and Data-Based Decision-Making	EF400	Seminar in Educational Issues	.25
	ED280	Introduction to Education as a Profession	.25
	SE350	Pedagogy 1 Principles of Effective Teaching in Middle and Secondary	.5
	SE365	Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology	.5
	SE385	Pedagogy 3 Advanced Methods of Middle and Secondary Teaching	.5
d. Strategies for Content Literacy	SE311	Techniques of Teaching High School Mathematics	.25
	SE307	Content Literacy Methods for Middle and High School	Hours are counted under "Secondary Literacy"
e. Critical Thinking and Problem Solving	SE350	Pedagogy 1 Principles of Effective Teaching in Middle and Secondary	.25
	SE365	Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology	.25
	SE385	Pedagogy 3 Advanced Methods of Middle and Secondary Teaching	.25
	SE311	Techniques of Teaching High School Mathematics	.5

f. English Language Learning	SE385 SE307 SE390	Pedagogy 3 Advanced Methods of Middle and Secondary Teaching Content Literacy Methods for Middle and High School Instructional Interventions for Middle and High School Students with Special Literacy Needs	.25  Hours are counted under "Secondary Literacy"
<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	PY222	Development of the Adolescent	3
b. Psychology/Education of the Exceptional Child	EX390	Psychology and Education of the Exceptional Child	3
c. Differentiated Learning	ED280 SE350 SE365 SE385	Introduction to Education as a Profession Pedagogy 1 Principles of Effective Teaching in Middle and Secondary Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology Pedagogy 3 Advanced Methods of Middle and Secondary Teaching	.25 .25 .5 .5
d. Classroom Management	SE350 SE365 SE385 EF400	Pedagogy 1 Principles of Effective Teaching in Middle and Secondary Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology Pedagogy 3 Advanced Methods of Middle and Secondary Teaching Seminar in Educational Issues	.5 .5 .5 .25
e. Cultural Diversity	ED280 SE350 SE365 SE385	Introduction to Education as a Profession Pedagogy 1 Principles of Effective Teaching in Middle and Secondary Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology Pedagogy 3 Advanced Methods of Middle and Secondary Teaching	.25 .5 .25 .25
f. Educational Psychology	SE365 SE385	Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology Pedagogy 3 Advanced Methods of Middle and Secondary Teaching	.25 .25
<b>3. Schools and the Teaching Profession</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Consultation and Collaboration	ED280 SE350 SE365 SE385 EF400	Introduction to Education as a Profession Pedagogy 1 Principles of Effective Teaching in Middle and Secondary Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology Pedagogy 3 Advanced Methods of Middle and Secondary Teaching Seminar in Educational Issues	.25 .5 .25 .25 .25
b. Legal/Ethical Aspects of Teaching	ED280 SE365	Introduction to Education as a Profession Pedagogy 2 Secondary School-Interdisciplinary Methods and Technology	.5 1
<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	SE307	Content Literacy Methods for Middle and High School	3
b. Instructional Interventions for Students with Reading Deficits	SE390	Instructional Interventions for Middle and High School Students with Special Literacy Needs	3
<b>Professional Requirements - Total Semester Hours</b>			<b>28</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)	ED280	Introduction to Education as a Profession	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	SE355 SE380	Field Experience Advanced Field Experience	3 3
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	SE465	Middle and Secondary Student Teaching Field Experience	12
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>19</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)	MA140 AND MA145	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	5 4
2. Algebraic Structures (three semester hours)	MA445	Modern Algebra	3
3. Geometry (three semester hours)	MA340	Concepts of Geometry	3
4. Computer Science (three semester hours)	MA334	Mathematical Programming	3
5. Electives from the above coursework (six semester hours)	MA244 AND MA449	Analytic Geometry and Calculus III Mathematical Problem Solving	4 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)	MA250	Foundations of Mathematics	3
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)	MA443	Elementary Number Theory	3
d. Completion of Calculus Sequence (three semester hours)			
e. Probability and Statistics (three semester hours)	MA223 OR MA523	Elementary Probability and Statistics Probability & Statistics I	3
f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)	MA345	Linear Algebra	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>37</b>

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