



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>HANNIBAL-LAGRANGE UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>041544</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			
	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	EDU 203 <u>or</u> EDU 5123	Curriculum & Instruction	3
b. Instructional Strategies and Techniques in Content Area Specialty	SED 423 <u>or</u> EDU 5333	Secondary Education Methods in the Content Area Specialty <u>or</u> Middle School and Secondary Education Methods in the Content Area	3
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 383 <u>or</u> EDU 5053	Educational Tests & Measurements <u>or</u> Assessment & Evaluation in Education	3
d. Strategies for Content Literacy	SED 336 <u>or</u> EDU 5223	Reading & Writing in the Content Area <u>or</u> Reading & Writing Across the Curriculum	hours counted elsewhere
e. Critical Thinking and Problem Solving	EDU 223 <u>or</u> EDU 5023	Psychology of Learning	3
f. English Language Learning	EDU 213 <u>or</u> EDU 5063	Literacy for Diverse Learners	hours counted elsewhere
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY 263 <u>or</u> EDU 5313  <u>or</u> PSY 333	Child & Adolescent Psychology  <u>or</u> Developmental Psychology	3
b. Psychology/Education of the Exceptional Child	EDU 273 <u>or</u> 313 <u>or</u> EDU 5303	Psychology & Education of the Exceptional Child	3
c. Differentiated Learning	EDU 203 <u>or</u> EDU 5123  EDU 213 <u>or</u> EDU 5063  EDU 273 <u>or</u> 313 <u>or</u> EDU 5303	Curriculum & Instruction  Literacy for Diverse Learners  Psychology of the Exceptional Child	hours counted elsewhere
d. Classroom Management	SED 403 <u>or</u> EDU 5033	Classroom Management for Secondary Classrooms <u>or</u> Behavior Management	3
e. Cultural Diversity	EDU 213 <u>or</u> EDU 5063	Literacy for Diverse Learners	hours counted elsewhere

f. Educational Psychology	EDU 223 <u>or</u> EDU 5023	Psychology of Learning	hours counted elsewhere
<b>3. Schools and the Teaching Profession</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Consultation and Collaboration	SED 403 <u>or</u> EDU 5033  SED 423 <u>or</u> EDU 5333  EDU 479 <u>or</u> EDU 5909	Classroom Management for Secondary Classrooms <u>or</u> Behavior Management  Secondary Education Methods in the Content Area Specialty <u>or</u> Middle School and Secondary Education Methods in the Content Area  Education Professional Semester <u>or</u> Student Teaching	hours counted elsewhere
b. Legal/Ethical Aspects of Teaching	EDU 273 <u>or</u> 313 <u>or</u> EDU 5303  EDU 383 <u>or</u> EDU 5053  EDU 479 <u>or</u> EDU 5909	Psychology & Education of the Exceptional Child  Educational Tests & Measurements <u>or</u> Assessment & Evaluation in Education  Education Professional Semester <u>or</u> Student Teaching	hours counted elsewhere

<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	EDU 213 <u>or</u> EDU 5063  SED 336 <u>or</u> EDU 5223	Literacy for Diverse Learners  Reading & Writing in the Content Area <u>or</u> Reading & Writing Across the Curriculum	3  3
b. Instructional Interventions for Students with Reading Deficits	EDU 213 <u>or</u> EDU 5063  SED 336 <u>or</u> EDU 5223	Literacy for Diverse Learners  Reading & Writing in the Content Area <u>or</u> Reading & Writing Across the Curriculum	hours counted elsewhere
<b>Professional Requirements - Total Semester Hours</b>			<b>27</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)	EDU 100 <u>or</u> 5901 EDU 200 <u>or</u> 5902	Field Experience I Field Experience II	.5 .5
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 301  <u>or</u> EDU 5903	Content Area Practicum  <u>or</u> Field Experience III – Content Area Practicum	1  <u>or</u> 1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 479 <u>or</u> EDU 5909	Education Professional Semester <u>or</u> Student Teaching	12 <u>or</u> 9
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>11-14</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)	MTH 185, MTH 186	Analytic Geometry and Calculus I, Calculus II	5, 5
2. Algebraic Structures (three semester hours)	MTH 353	Modern Abstract Algebra	3
3. Geometry (three semester hours)	MTH 343	Modern Geometry	3
4. Computer Science (three semester hours)	CIS 203	Programming Fundamentals	3
5. Electives from the above coursework (six semester hours)	MTH 210, MTH 223	Discrete Mathematics, Differential Equations	3, 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)	MTH 413	History of Math	3
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)			
d. Completion of Calculus Sequence (three semester hours)	MTH 215	Calculus III	5
e. Probability and Statistics (three semester hours)	MTH 127 or MTH 483	Elementary Statistics or Probability and Statistics	3

f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)	MTH 354	Linear Algebra	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>39</b>

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