



**MATH, GRADES 9-12**

**Master of Arts in Teaching**

EDUCATOR PREPARATION PROGRAM NAME	FONTBONNE UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE	038603
-----------------------------------	----------------------	-----------------------------------	--------

**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	EDU569 OR EDU269  OR EDU531  EDU575 OR EDU271 OR EDU547  EDU597	Critical Skills in Teaching Profession w/Field Experience OR Critical Skills in Teaching Profession w/Field Experience OR The Contemporary Classroom  Content Planning, Delivery and Assessment OR Content Planning, Delivery and Assessment OR Curriculum Design, Assessment and Improvement  The Instructional Process	1          1
b. Instructional Strategies and Techniques in Content Area Specialty	EDU575 OR EDU271 OR EDU547  EDU518	Content Planning, Delivery and Assessment OR Content Planning, Delivery and Assessment OR Curriculum Design, Assessment and Improvement  Methods & Practicums for Mid/Sec/Comm. Education	1     1
c. Assessment, Student Data, and Data-Based Decision-Making	EDU575 OR EDU271 OR EDU547  EDU597	Content Planning, Delivery and Assessment OR Content Planning, Delivery and Assessment OR Curriculum Design, Assessment and Improvement  The Instructional Process	1     1
d. Strategies for Content Literacy	EDU568 OR EDU268 OR EDU541  EDU550	Exploration of Learner Development OR Introduction to Learner Development OR Frameworks for Learning  Reading & Writing in Content Area	.5     1

e. Critical Thinking and Problem Solving	EDU568 OR EDU268 OR EDU541  EDU597	Exploration of Learner Development OR Introduction to Learner Development OR Frameworks for Learning  The Instructional Process	1    1
f. English Language Learning	EDU572 OR EDU270	Exploration of Learner Diversity OR Introduction to Learner Diversity	.5
<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	PSY200	Developmental Psychology	3
b. Psychology/Education of the Exceptional Child	EDU572 OR EDU270	Exploration of Learner Diversity OR Introduction to Learner Diversity	1
c. Differentiated Learning	EDU572 OR EDU270  EDU518  OR EDU313	Exploration of Learner Diversity OR Introduction to Learner Diversity  Methods & Practicums for Mid/Sec/Comm. Education OR Methods and Practicums for Mid/Sec/Comm. Education	.5    .5
d. Classroom Management	EDU500	Classroom/Behavior Management Techniques	3
e. Cultural Diversity	EDU572 OR EDU270  EDU518  OR EDU313	Exploration of Learner Diversity OR Introduction to Learner Diversity  Methods & Practicums for Mid/Sec/Comm. Education OR Methods and Practicums for Mid/Sec/Comm. Education	.5    .5
f. Educational Psychology	EDU568 OR EDU268 OR EDU541	Exploration of Learner Development OR Introduction to Learner Development OR Frameworks for 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	EDU568 OR EDU268 OR EDU541  EDU572 OR EDU270 OR EDU586	Exploration of Learner Development OR Introduction of Learner Development OR Frameworks for Learning  Exploration of Learner Diversity OR Introduction to Learner Diversity OR Studies in Disabilities and Exceptionality	.5     .5
b. Legal/Ethical Aspects of Teaching	EDU569  OR EDU269  OR EDU531	Critical Skills in Teaching Profession w/Field Experience OR Critical Skills in Teaching Profession w/Field Experience OR The Contemporary Classroom	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	EDU550	Reading and Writing Across Curriculum	2
	EDU549	Foundations of Reading Instruction	3
b. Instructional Interventions for Students with Reading Deficits	EDU553	Assessment and Teaching Students w/Reading Difficulties	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)	EDU569	Critical Skills in Teaching Profession w/Field Experience	1
	OR EDU269	Critical Skills in Teaching Profession w/Field Experience	
	OR EDU531	The Contemporary Classroom	
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU518	Methods & Practicums for Mid/Sec/Comm. Education	1
	OR EDU313	Methods and Practicums for Mid/Sec/Comm. Education	
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU451	Student Teaching at Secondary Level	10
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>12</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)	MTH150	Calculus w/Analytic Geometry	4
	MTH151	Calculus w/Analytic Geometry II	4
	MTH250	Calculus w/Analytic Geometry III	4
2. Algebraic Structures (three semester hours)	MTH430	Algebraic Structures	3
3. Geometry (three semester hours)	MTH320	Elements of Geometry	3
4. Computer Science (three semester hours)	CIS160	Computer Science I	4
5. Electives from the above coursework (six semester hours)	Choose Two: MTH120 MTH310 CIS120	Discrete Mathematics Differential Equations Overview of Computer and Information Science	3 3
	CIS210 CIS300 CIS 465	Object-Oriented Programming Modeling and Numerical Approximation Robotics	
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)	MTH305	Readings in History of Mathematics	2
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)			
d. Completion of Calculus Sequence (three semester hours)			
e. Probability and Statistics (three semester hours)	MTH115	Introduction to Statistics	3
f. Computer Science (three semester hours)	CIS161	Computer Science II	4
g. Linear Algebra (three semester hours)	MTH200	Linear Algebra	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>40</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).