



MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION
OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

MATHEMATICS, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME CENTRAL METHODIST UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 630984
--	--

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 on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573/751-1668 or 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	ED370MA ED453	Teaching Methods in the Content Area Education as a Profession	0 2
b. Instructional Strategies and Techniques in Content Area Specialty	ED370	Teaching Methods in the Content Area	3
c. Assessment, Student Data, and Data-Based Decision-Making	ED370MA ED453	Teaching Methods in the Content Area Education as a Profession	0 0
d. Strategies for Content Literacy	ED471	Reading & Writing in the Content Area	0
e. Critical Thinking and Problem Solving	ED453	Education as a Profession	0
f. English Language Learning	ED101 ED471	Foundations of Education, Diversity, and ELL Reading & Writing in the Content Area	2 0

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PY223	Developmental Psychology	3
b. Psychology/Education of the Exceptional Child	PY342	Psychology of the Exceptional Child	2
c. Differentiated Learning	ED370MA PY342	Teaching Methods in the Content Area Psychology of the Exceptional Child	0 0
d. Classroom Management	ED313 ED370MA	Classroom & Behavior Management Teaching Methods in the Content Area	3 0
e. Cultural Diversity	ED101 ED453	Foundations of Education, Diversity, and ELL Education as a Profession	0 0
f. Educational Psychology	PY210	Educational Psychology	3

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	ED453	Education as a Profession	0
b. Legal/Ethical Aspects of Teaching	ED101 ED453 ED454	Foundations of Education, Diversity, and ELL Education as a Profession Student Teaching Seminar	0 0 2

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), 6th 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.

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	ED471	Reading & Writing in the Content Area	3
b. Instructional Interventions for Students with Reading Deficits	ED470	Instructional Interventions for Students with Reading Deficits	3
Professional Requirements - Total Semester Hours			26
B. Field and Clinical Experiences (Minimum of ten semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	ED102 (18 hours)	Field Experience I	1
	ED105 (12 hours)	Field Experience II	0
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	PY343 (18 hours)	Psychology of the Exceptional Child (Prac)	1
	ED370MA (15 hrs)	Teaching Methods in the Content Area	0
	ED471 (12 hours)	Reading & Writing in the Content Area	0
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	ED462 (16 week placement)	Supervised Student Teaching	10
Field and Clinical Experiences - Total Semester Hours			12
C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)			
	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (nine semester hours)	MA118	Calculus & Analytic Geometry I	5
	MA209	Calculus & Analytic Geometry II (5 hours)	4 (1 below)
2. Algebraic Structures (three semester hours)	MA317	Modern Algebra (4 hours)	3 (1 below)
3. Geometry (three semester hours)	MA319	College Geometry (4 hours)	3 (1 below)
4. Computer Science (three semester hours)	MA/CS320 (this number may change in the fall)	Computers in the Math Classroom	3
5. Electives from the above coursework (six semester hours)	MA209	Calculus & Analytic Geometry II	1
	MA317	Modern Algebra	1
	MA319	College Geometry	1
	Choose 1: MA318 or MA202	Matrices & Linear Algebra or Elements in Geometry	3
6. Additional Mathematics coursework – Minimum of 12 semester hours to include at least three of the following areas of Mathematics:			12 Hours from courses below
a. History of Mathematics (three semester hours)	MA303	History of Mathematics	3
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)	MA207	Discrete Mathematics	3
d. Completion of Calculus Sequence (three semester hours)	MA308	Calculus & Analytic Geometry III	5
e. Probability and Statistics (three semester hours)	MA105	Elementary Statistics	3
	MA305	Statistics II	3
f. Computer Science (three semester hours)	One of the following:		
	CS172	.NET 1	3
	CS214	Web Page Design	3
	CS216	Web Programming	3
	CS231	Scientific Computer Programming	3
	CS236	Programming in Visual Basic	3
	CS237	Programming with Java	3
	CS271	.NET II	3
	CS272	Survey of Programming Languages	3
	CS275	Mobile Application Development	3
	CS371	Concepts of MIS	3
	CS378	Data Structures and Algorithms	3
	g. Linear Algebra (three semester hours)	MA318 (If not used as Elective above)	Matrices & Linear Algebra
Content Knowledge Area - Total Semester Hours			36