



SCIENCE, GRADES 5-9

EDUCATOR PREPARATION PROGRAM NAME CENTRAL METHODIST UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 630984
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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 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 45 semester hours)

1. Content Planning and Delivery

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	ED370SC ED453	Teaching Methods in the Content Area Education as a Profession	0 2
b. Instructional Strategies and Techniques in Content Area Specialty	ED370SC	Teaching Methods in the Content Area	3
c. Assessment, Student Data, and Data-Based Decision-Making	ED370SC 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	ED370SC PY342	Teaching Methods in the Content Area Psychology of the Exceptional Child	0 0
d. Classroom Management	ED313	Classroom & Behavior Management	3
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
c. Middle School Philosophy and Organization	ED314	History, Philosophy, and Curriculum of Middle-Level Education	3

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4. Middle School 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 Learning Deficits	3
5. Content Knowledge for Teaching (Minimum of 24 semester hours with appropriate distribution in one of the following certificate subject areas)			
	Course Number	Course Title	Semester Hours
a. Agricultural Education			
b. Business Education			
c. Technology and Engineering			
d. Language Arts			
e. Mathematics			
f. Science Students should choose 24 hours in science from courses listed in consultation with their advisors.	AS101 AS102 BI101 BI102 BI104 BI105 BI106 BI107 BI108 BI110 BI205 BI206 BI300 BI/ES301 BI302 BI303 BI304 BI305 BI306 BI307 BI309 BI/ES311 BI314 BI315 BI317 BI/ES318 BI320 CH107 CH111 CH114 CH/ES202 CH221 CH317 CH/PH322 CH341 CH342 CH/PS354 CH/PH355 CH362 ES306 PH111 PH112 PH205 PH206 PH307	Descriptive Astronomy I w/ lab Descriptive Astronomy II w/ lab General Biology I w/ lab General Biology II w/ lab Biology of the Dinosaurs Introduction to Environmental Science w/ lab Human Biology w/ lab Human Anatomy w/ lab Biodiversity w/ lab Introduction to Biotechnology General Physiology w/ lab Invertebrate Zoology w/ lab Ornithology w/ lab Ecology w/ lab Botany w/ lab Early Vertebrates Mammalogy w/ lab Microbiology w/ lab Genetics w/ lab Comparative Animal Behavior w/ lab Histology w/ lab Conservation Biology Pathophysiology Immunology Biochemistry and Cellular Physiology w/ lab Toxicology and Environmental Medicine Molecular and Cellular Biology w/ lab Chemistry/Allied Health General Chemistry w/ lab General Chem w/ Qualitative Analysis w/ lab Environmental Chemistry w/ lab Quantitative Analysis w/ lab Biochemistry and Cellular Physiology w/ lab Scientific Instrumentation w/ lab Organic Chemistry I w/ lab Organic Chemistry II w/ lab Thermodynamics and Physical Chem w/ lab Quantum Mechanics w/ lab Inorganic Chemistry w/ lab Environmental Health General Physics I w/ lab General Physics II w/ lab Calculus Physics I w/ lab Calculus Physics II w/ lab Modern Physics	24
g. Social Science			
h. Speech/Theatre			
Professional Requirements - Total Semester Hours			53
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) ED105 (12 hours)	Field Experience I Field Experience II	1 0
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	PY343 (18 hours) ED370SC (15 hrs) ED471 (12 hours)	Psychology of the Exceptional Child (Prac) Teaching Methods in the Content Area Reading & Writing in the Content Area	1 0 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