



**TECHNOLOGY AND ENGINEERING, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>Central Methodist University</b>	EDUCATOR PREPARATION PROGRAM CODE <b>630984</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**

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	ED370TE ED453	Teaching Methods in the Content Area Education as a Profession	0 2
b. Instructional Strategies and Techniques in Content Area Specialty	ED370TE	Teaching Methods in the Content Area	3
c. Assessment, Student Data, and Data-Based Decision-Making	ED370TE 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	ED370TE PY342	Teaching Methods in the Content Area Psychology of the Exceptional Child	0 0
d. Classroom Management	ED313 ED370TE	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

4. Secondary Literacy (Minimum of 6 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
<b>Professional Requirements - Total Semester Hours</b>			<b>26</b>
B. Field and Clinical Experiences (Minimum of 10 semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of 1 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 1 semester hour with a minimum of 45 clock hours)	PY343 (18 hours)	Psychology of the Exceptional Child (Prac)	1
	ED370TE (15 hours)	Teaching Methods in the Content Area	0
	ED453 (20 hours)	Education as a Profession	1
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	ED462 (16 weeks)	Supervised Student Teaching	10
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>13</b>
C. Technology and Engineering Content Knowledge Area (Minimum of 36 semester hours)			
	Course Number	Course Title	Semester Hours
1. Communication Technology (6 semester hours)	TE140	Industrial Print Reading (MACC)	3
	TE131	Fundamentals of Industrial Maintenance (MACC)	3
2. Energy and Power (6 semester hours)	3 hours from the following:		
	TE230	Mechanical Systems (MACC)	3
	TE135	Fluid Power Principles (MACC)	3
	AND		
	3 hours from the following:		
	TE100	DC/AC Electronics (MACC)	3
	TE111	Electronic Motor Controls (MACC)	3
3. Materials and Processes Technology (6 semester hours)	TE 160	Welding I (MACC)	3
	AND		
	Choose 3 hours from the following:		
	TE150	Machine Tool (MACC)	3
	TE213	Process Control and Instrumentation (MACC)	3
	TE214	Programmable Logic Controllers (MACC)	3
4. Organization and Administration (6 semester hours)	TE130	Industrial Safety & Manufacturing Processes (MACC)	3
	AND		
	3 hours from the following:		
	TE252	CNC Operations (MACC)	3
	TE295	Industrial Technology Internship (MACC)	3
5. Electives (12 semester hours)	12 hours from the following:		
	TE101	Industrial Electricity (MACC)	3
	TE110	Digital Electronics and Control (MACC)	3
	TE151	Machine Tool II (MACC)	3
	TE161	Welding II (MACC)	3
	TE250	CNC Programming (MACC)	3
	TE216	Advanced Programmable Logic (MACC)	3
	TE220	Robotics and Integrated Manufacturing (MACC)	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>36</b>

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