

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

MATHEMATICS, GRADES 5-9

A. Professional Requirements (Minimum of 45 semester hours)

EDUCATOR PREPARATION PROGRAM NAME

EDUCATOR PREPARATION PROGRAM CODE

Missouri University of Science & Technology

116119

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. Curriculum and Instructional Planning EDUC 3280 EDUC 3335 EDUC 3335 EDUC 3280 EDUC 3280 Instructional Strategies and Techniques in Content Area Specialty C. Assessment, Student Data, and Data-Based Decision-Making d. Strategies for Content Literacy EDUC 3216 EDUC 1174 English 3170 Feaching Reading in Content Are School Org & Adm for Elem & Se EDUC 1040 EDUC 3216 EDUC 1104 EDUC 2102 or Psych 2300 (col-listed) EDUC 2102 or Psych 2300 (col-listed) EDUC 2102 or Psychological Development of the Child and Adolescent D. Psychology/Education of the Exceptional Child EDUC 3216 EDUC 4310 or Psychology/Education of the Exceptional Child C. Differentiated Learning EDUC 3216 ED		ester urs
in Content Area Specialty c. Assessment, Student Data, and Data-Based Decision-Making d. Strategies for Content Literacy EDUC 3216 English 3170 EDUC 3280 EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3174 English 3170 Feaching Reading in Content Are School Org & Adm for Elem & Se Teaching & Supervising Reading f. English Language Learning EDUC 3280 EDUC 3216 EDUC 1174 English 3170 EDUC 3280 EDUC 1174 English 3170 Feaching Methods & Skills in Cor Perspectives in Education Teaching Reading in Content Are EDUC 2102 or Perspectives in Education Teaching Reading in Content Are EDUC 2102 or Perspectives in Education Teaching Reading in Content Are EDUC 2102 or Perspectives in Education Teaching Reading in Content Are Teacher Field Experience Educational Psychology Teaching & Supervising Reading Teaching & Supervising Reading Teaching & Supervising Reading Developmental Psych Developmental Psych Developmental Psych Developmental Psych EDUC 3216 EDU	tent Area 6	6
d. Strategies for Content Literacy EDUC 3216 English 3170 EDUC 3280 EDUC 3216 EDUC 2102 or Perspectives in Education Teaching Reading in Content Are EDUC 2102 or Perspectives in Education Teaching Reading in Content Are EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3210 EDUC 3210 Teaching Methods & Skills in Cor Perspectives in Education Teaching Reading in Content Are Teacher Field Experience Educational Psychology Teaching & Supervising Reading 2. Individual Student Needs Course Number Course Title a. Psychological Development of the Child and Adolescent b. Psychology/Education of the Exceptional Child C. Differentiated Learning EDUC 3216 EDUC 3216 EDUC 3216 Teaching Reading in Content Are	tent Area	
e. Critical Thinking and Problem Solving e. Critical Thinking and Problem Solving EDUC 3280 EDUC 3216 EDUC 1174 English 3170 Feaching Methods & Skills in Cor Teaching Reading in Content Are School Org & Adm for Elem & Se Teaching & Supervising Reading f. English Language Learning EDUC 3280 EDUC 1040 EDUC 3216 EDUC 1040 EDUC 3216 EDUC 1104 EDUC 2102 or Psych 2300 (co-listed) English 3170 EDUC 2102 or Psych 2300 (co-listed) English 3170 English 3170 English Language Learning Course Number Course Number EDUC 3280 EDUC 1040 EDUC 3216 EDUC 3104 EDUC 2102 or Psych 3310 Educational Psychology Teaching & Supervising Reading Teaching Methods & Skills in Cor Perspectives in Education Teaching Reading in Content Are Teacher Field Experience Educational Psychology Teaching & Supervising Reading EDUC 3100 Teaching & Supervising Reading Teaching Reading in Content Are Psychology of the Exceptional Child EDUC 4310 or Psychology of the Exceptional Child EDUC 3216 EDUC 3216 EDUC 3216 EDUC 3280 Teaching Reading in Content Are Teaching Methods & Skills in Cor Teaching Methods & Skills in Cor Teaching Reading in Content Are Teaching Methods & Skills in Cor	3	3
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e. Cultural Diversity EDUC 4298 EDUC 1040 EDUC 3216 EDUC 2102 or Psych 2300 (co-listed) EDUC 3280 EDUC 4298 EDUC 1040 Perspectives in Education Teaching Reading in Content Are Educational Psych Teaching Methods & Skills in Cor	a	1
f. Educational Psychology EDUC 2102 or Educational Psychology	torit / iroas	

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		Course Number	Course Title	Semester
a	. Consultation and Collaboration	EDUC 3280 EDUC 3216 EDUC 1174 EDUC 1040 EDUC 2102 Psych 2300 (co-listed)	Teaching Methods & Skills in Content Areas Teaching Reading in Content Area School Org & Adm for Elem & Sec Teachers Perspectives in Education Educational Psychology	Hours
b	. Legal/Ethical Aspects of Teaching	EDUC 3280 EDUC 3216 EDUC 1174 EDUC 1040 EDUC 3340	Teaching Methods & Skills in Content Areas Teaching Reading in Content Area School Org & Adm for Elem & Sec Teachers Perspectives in Education Assessment of Student Learning	
С	. Middle School Philosophy and Organization	EDUC 3335	Curriculum and Instruction of the Middle School	
4. N	Middle School Literacy (Minimum of 6 seme	ster hours)		
		Course Number	Course Title	Semester Hours
а	. Reading and Writing in the Content Area	English 3170 EDUC 3216	Teaching & Supervising Reading & Writing Teaching Reading in Content Area	3
b	. Instructional Interventions for Students with Reading Deficits	EDUC 3216 EDUC 3280 English 3170 EDUC 4298	Teaching Reading in Content Area Teaching Methods & Skills in Content Areas Teaching & Supervising Reading & Writing Student Teaching Seminar	3
	Content Knowledge for Teaching (Minimum ertificate subject areas)	of 24 semester hours w	vith appropriate distribution in one of the follo	owing
		Course Number	Course Title	Semester Hours
а	. Agricultural Education			110013
b	. Business Education	BUS 1110 BUS 1210 BUS 2910 MKT 3110 or MKT 5310 BUS 3220 Is&T 1551 or IS&T 1750 ECON 1100 or ECON 1200	Intro to Management and Entrepreneurship Financial Accounting Business Law Marketing or Digital Marketing and Promotions Marketing Managerial Accounting Implementing Information Systems: User Perspective OR Into to MIS Principles of Microeconomics OR Principles of Macroeconomics	3 3 3 3 3
С	. Technology and Engineering	FINANCE 2150	Corporate Finance I	3
d	. Language Arts	English 1120 English 1160	Exposition And Argumentation Writing And Research	3
		English 2241 English 2245 English 2247 English 3220 English 3221 English 3222 English 3223 English 3224 English 3225 English 3226 English 3227 English 3210 English 3210 English 3214 English 3215 English 3215 English 3215 English 3217 English 3218 English 3218 English 3219 English 3233 EDUC 3430 or English 2240	REQUIRED: 12 hours from the following: Literature for Adolescents African American Literature Am Crime And Detective Fiction Early American Literature American Poetry I The American Renaissance American Poetry II Southern Culture The American Novel I The American Novel II American Gothic Survey Of Old & Middle Eng Lit The Plays Of William Shakespeare The Restoration & 18 th Century Victorian Literature The British Novel II Contemporary British Literature Children's Literature or Children's Literature	12

	English 1170	REQUIRED: 12 hours including: Creative Writing	3
	English 2171 or English 2172	One of the following: Fiction Writing OR Creative Nonfiction Writing	3
	English 3301 or English 3302 or	Two of the following: A Linguistic Study Of Modern English OR History And Structure Of The English Language OR	6
	English 3303	The Grammatical Structure of English	
e. Mathematics	Math 3922/EDUC 3222	Geometric Concepts for Elementary Teachers	3
	Math 1103 Math 1120 or 1140	Fundamentals of Algebra College Algebra	3 3 or 5
	Math 1160	Trigonometry	2
	Math 1208 or Math 1214 or 1210+1211	Calculus with Analytic Geometry I OR Calculus For Engineers I or TBA+TBA	4 or 5 or 4+4
	Math 1215 or Math 1221 or Math 1212	Calculus For Engineers II OR Calculus With Analytic Geometry II OR Business Calculus and Lab	4 or 5
	Stats 1115 or Stat 3113 or Stat 3115	Stats for the Social Sciences OR Applied Engineering Stats OR Engineering Statistics	3
	IS&T 1551 or	Implementing Information Systems: User	3 or 2,1
	Comp Sci 1500 or Comp Sci 1971/1981	Perspective OR Computational Problem Solving OR Intro to Programming Methodology/Lab OR	
	or Comp Sci 1570 or Comp Sci 1970/1980 or	Intro to Programming OR Basic Scientific Programming/Computer Programming Lab OR	
	Comp Sci 1972/1982	Intro to MATLAB Programming/Lab	
f. Science	History 3530 EDUC 3001 or Hist 3555 or	History of Science OR Diversity and Equity in STEM Education: Yesterday, Today, and Tomorrow OR History of Medieval and Early Modern Science or	3
	Philos 4345 Geology 1110 Geology 1120	Philosophy Of Science Physical and Environmental Geology Evolution of the Earth	3 3
	Physics 1505 or Physics 1145	Introductory Astronomy OR College Physics	3
	Bio Sci 1113 or Bio Sci 1213	General Biology OR Principles of Biology	3
	Bio Sci 1219 Bio Sci 1173	General Biology Lab Intro to Environmental Sciences	2 3
	Chem 1310 Chem 1319	General Chemistry General Chemistry Lab	4 1
g. Social Science	History 1300 or History 1310	American History to 1877 OR American History Since 1877	3
	History 1100 or History 1200	Early Western Civilization OR Modern Western Civilization	3
	Pol Sci 1200 History 2110	American Government World Regional Geography	3 3
	Economics 1100 or 1200	Principles of Microeconomics OR Macroeconomics	3
	History 1300	Choose one American History elective not already counted in top section above: American History to 1877	3

	semester hours with a minimum of 12 weeks in 1 placement)	Field and Clin	ical Experiences - Total Semester Hours	15
3.	semester hour with a minimum of 45 clock hours) Culminating Clinical Experiences (Minimum of 8	EDUC 1164	Student Teaching	12
1.	Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours) Mid-Level Field Experiences (Minimum of 1	EDUC 1104 EDUC 1164	Teacher Field Experience Aiding Elementary, Middle, and Secondary	2
	Fally Field Function and Attains	Course Number	Course Title	Hours
Fie	Id and Clinical Experiences (Minimum of 10			Semester
F			al Requirements - Total Semester Hours	50-56
	h. Speech/Theatre			
		History 3665	to Present History of Japan	
			Architecture, Technology and Society; 1750	
		History 4550	Nazi Germany and the Holocaust	
		History 4245	European Migrations and Nationalism Formation	
		History 3280	War & Society in Twentieth-Century Europe	
		History 4246	Contemporary Europe	
		History 3240	Foundations Of Contemporary Europe 1815-1914	
		History 3235	And Napoleon	
		History 3230	The Reformation Europe In The Age Of The French Revolution	
		History 4145	History Of Renaissance Thought	
		History 3140	Medieval History II	
		History 3130 History 3135	Ancient Rome Medieval History I	
		History 3125	Ancient Greece	
		History 3150 History 3120	History of the American Pacific Tudor And Stuart England	
		History 2430	Modern East Asia	
		History 3660	European Diplomatic History 1814 – Present	
		History 2224 History 2210	The Making Of Modern France Making Of Modern Russia	
		History 2222	Making of Modern Germany	
		History 2220 History 2221	Modern Western Civilization Making Of Modern Britain	
		History 1200	Early Western Civilization	
		History 1100	already counted in top section above:	Ü
			Choose two World History electives not	6
		1 115tory 0702	War II	
		History 3761 History 3762	U.S. Diplomatic History to World War II American Diplomatic History Since World	
		History 3442	The United States In World War II	
		History 3440 History 3441	20th Century Americans In Combat The United States in Vietnam	
		History 4470	American Environmental History	
		History 4435	History of the American West	
		History 3425 History 3426	History Of The Old South History Of The Modern South	
		History 3450	American Intellectual History II	
		History 3345 History 3360	Civil War And Reconstruction Recent United States History	
		History 3340	Age Of Jefferson And Jackson	
		History 3320 History 3325	Revolutionary America, 1754-1789	
		History 3321	Religion And Witchcraft In Early America Colonial America	
		History 3760	The American Presidency	
		History 3420 History 3443	History of Missouri The American Military Experience	
		History 3763	Contemporary Political Thought	