



CHEMISTRY, GRADES 9-12 – ALTERNATIVE – TEACH FOR AMERICA

EDUCATOR PREPARATION PROGRAM NAME UNIVERSITY OF MISSOURI-ST. LOUIS	EDUCATOR PREPARATION PROGRAM CODE 116118
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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 26 semester hours)

1. Content Planning and Delivery

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	TCH ED 5310 A	Instructional Design	1
	TCH ED 5310 B	Instructional Design	1
	SEC ED 4240	Curriculum and Methods of Teaching Physical Sciences	3
b. Instructional Strategies and Techniques in Content Area Specialty	SEC ED 4240	Curriculum and Methods of Teaching Physical Sciences	3
	ED TECH 6135	Tech for Preparing Inquiry-based Teaching	1
c. Assessment, Student Data, and Data-Based Decision-Making	ED PSY 6030A	Instruction, Learning & Assessment	1
	TCH ED 5312	Teaching Reading in the Content Area	3
	SEC ED 5989	Practicum I: Site Based Experience	2
d. Strategies for Content Literacy	TCH ED 4391	Literacy for Adolescent Learners in the Content Area	3
e. Critical Thinking and Problem Solving	TCH ED 5310A	Instructional Design	1
	TCH ED 5310B	Instructional Design	1
	SEC ED 4240	Curriculum and Methods of Teaching Physical Sciences	3
	ED TECH 6135	Tech for Preparing Inquiry-based Teaching	1
f. English Language Learning	TCH ED 4391	Literacy for Adolescent Learners in the Content Area	3
	TCH ED 5312	Teaching Reading in the Content Area	3

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	ED PSY 6220	Development of School Aged Students	2

b. Psychology/Education of the Exceptional Child	SPC ED 6412A	Psychology of Exceptional Children	1
	SPC ED 6412B	Psychology of Exceptional Children	1
	ED PSY 6220	Development of School Aged Students	2
c. Differentiated Learning	TCH ED 5312	Teaching Reading in the Content Area	3
d. Classroom Management	SPC ED 6325	Advanced Studies in Classroom and Behavior Management	3
	SPC ED 6412A	Psychology of Exceptional Children	1
	SPC ED 6412B	Psychology of Exceptional Children	1
e. Cultural Diversity	SEC ED 6420	Improving Teaching and Learning	3
	TCH ED 6010A	Examining History, Community and Social Justice in Education	1
	TCH ED 6010B	Examining History, Community and Social Justice in Education	1
	SPC ED 6412A	Psychology of Exceptional Children	1
	SPC ED 6412B	Psychology of Exceptional Children	1
	SPC ED 6325	Advanced Studies in Classroom and Behavior Management	3
f. Educational Psychology	ED PSY 6220	Development of School Aged Students	2
	ED PSY 6030A	Instruction, Learning & Assessment	1
	SPC ED 6325	Advanced Studies in Classroom and Behavior Management	3
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	SPC ED 6412A	Psychology of Exceptional Children	1
	SPC ED 6412B	Psychology of Exceptional Children	1
	SEC ED 5989	Practicum I: Site Based Experience	2
	SPC ED 6325	Advanced Studies in Classroom and Behavior Management	3
b. Legal/Ethical Aspects of Teaching	TCH ED 6010A	Examining History, Community and Social Justice in Education	1
	TCH ED 6010B	Examining History, Community and Social Justice in Education	1
	SPC ED 6412A	Psychology of Exceptional Children	1
	SPC ED 6412B	Psychology of Exceptional Children	1

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	TCH ED 4391	Literacy for Adolescent Learners in the Content Area	3
b. Instructional Interventions for Students with Reading Deficits	TCH ED 5312	Teaching Reading in the Content Area	3
Professional Requirements - Total Semester Hours			27
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)	Residency	During Summer Institute, new Teach for America Corps Members teach 4 weeks in the St. Louis Public Schools summer program under mentorship of a classroom teacher.	
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	Residency	Teach For America teachers serve as teacher of record for 2 school years following Summer Institute.	
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	Residency	Teach For America teachers serve as teacher of record for 2 school years following Summer Institute.	
Field and Clinical Experiences - Total Semester Hours			N/A
C. Chemistry Content Knowledge Area (Minimum of 35 semester hours) <i>NOTE: Alternative certification individuals earn passing scores on the appropriate Missouri Content Assessments prior to beginning UMSL's certification program. Candidates must also possess a Bachelor's Degree in the appropriate content area.</i>			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (Minimum of three semester hours)			
2. Chemistry Coursework – Minimum of 20 semester hours which must include:			
a. Inorganic Chemistry			
b. Analytical Chemistry			
c. Organic Chemistry			
d. Physical Chemistry			
e. Biochemistry			
f. Chemistry Electives			
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Biology			
b. Physics			
c. Earth Science			
d. Environmental Science			
Content Knowledge Area - Total Semester Hours			

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.