



## Major Map: Secondary Education BA (Chemistry Unified Emphasis)

Catalog Year: 2013-2014

The following is a sample course of study. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement.

*Your path to graduation may vary slightly based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning and placement in Mathematics. You are responsible for checking prerequisites to any courses and the education requirements outlined in the School of Education Student Handbook.*

Course Subject and Title	Hrs.	Upper Division	Transfer Course	Minimum Grade if Required	Date Completed	Final Grade	Pre-requisites met	Additional Critical Tracking Notes
<b>Fall Semester Year 1: 14 hours</b>								
ENG 110 English Composition I	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
BIO 108/108L General Biology I and lab	3/1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 211/211L General Chemistry I with lab	4/1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
HIST 101 or 102 American History I or II	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 1: 15-16 hours</b>								
ENG 225 English Composition II	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
MATH 210 or 235 Calculus I or Statistics	3-4	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
BIO 109/109L General Biology II and lab	3/1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 212/212L General Chemistry II with lab	4/1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
<b>Summer Semester Year 1</b>								
May use summer semester to lighten fall and winter course loads.								
<b>Fall Semester Year 2: 17 hours</b>								
POLS 210 American Government	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Complete WEPT
CHEM 321/321L Organic Chemistry I	3/1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
PHYS 210 General Physics I with lab	4	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
GEOL 220 General Geology	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
<b>Spring Semester Year 2: 18 hours</b>								
TCH-ED 385 Teaching and Learning with Technology	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	Complete CBASE
Social Science (pick from ECON, GEOG, POLS, PSYCH, SOC)	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
CHEM 322/322L Organic Chemistry II	3/1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 341 Analytical Chemistry	4	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
PHYS 220 General Physics II with lab	4	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
<b>Summer Semester Year 2</b>								
May use summer semester to lighten fall and winter course loads.								
<b>Fall Semester Year 3: 14 hours</b>								
TCH-ED 403 Educational Psychology	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	Complete PRAXIS II: Chemistry: Content Knowledge #0245  Apply to Professional Education Program
TCH-ED 404 Education of the Exceptional Child	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 330 Physical Chemistry	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 367 Biochemistry	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 382 Inorganic Chemistry	2	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
<b>Spring Semester Year 3: 18 hours</b>								
FINE ARTS (Pick from Art 110, Consvty 120, Theatre 130)	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
COMS 110 Speech/Communication	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
TCH-ED 420 Adolescent Development	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
GEOG 319 Descriptive & Synoptic Meteorology	4	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	



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ENVS 110R/110L Environmental Science with Lab	3/2	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CHEM 387 Environmental Chemistry I	3							
Summer Semester Year 3: 9 hours								
ENG ___ Literature	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
EDUC 489GT Gateway to Teaching	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
EDUC 428 Cultural Diversity in American Education	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
TCH-ED 408WI Introductory Foundations	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
TCH-ED 422 Practicum I	1	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
Fall Semester Year 4: 12 hours								
TCH-ED 423 Practicum II	2	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	Apply for graduation.
TCH-ED 427 Reading in the Secondary School	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
TCH-ED 435 Special Methods Science	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
TCH-ED 470 Philosophy & History of Science and Technology	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
TCH-ED 438 Culturally Responsive Strategies	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
Spring Semester Year 4: 12 hours								
TCH-ED 437 Student Teaching – Secondary	10	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	Apply for certification.
TCH-ED 495 Science Capstone	2	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	

### Non-course requirements

Math Placement Exam  
 Written English Proficiency Test (WEPT)  
 College Basic Academic Subjects Exam (CBASE)  
 PRAXIS II: Chemistry: Content Knowledge #0245  
 Admission to professional education program  
 Admission to internship year  
 Program Portfolio – Teacher Work Sample

### Met

The School reserves the right to make changes in courses, degree requirements and course schedules without notice.

Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

All students completing an undergraduate education degree must meet the following conditions in order to graduate and be recommended for graduation or certification:

- Complete an oral communications class, English composition I & II, and a required math class or its equivalent with grades C or better
- Complete the specific pre-education, subject area, and education courses with a C grade or higher
- Attain a cumulative grade point average of at least 2.75
- Attain a subject-area grade point average of at least 2.5 (applies to middle school, secondary, and K-12 programs)
- Gain acceptance into the School of Education Professional Program (consult with your academic advisor)
- Submit acceptable results from a Missouri FBI background check
- Passed each section of the College Basic Academic Subjects Exam (CBASE) with scores of 235 or higher
- Passed the appropriate Praxis II exam

**Academic Advisor:** Brad Martens, M.A.  
 Academic Advisor  
 816-235-2474  
[martensbm@umkc.edu](mailto:martensbm@umkc.edu)

**Faculty Advisor:** Dr. Louis Odom  
 Associate Professor  
 816-235-2468  
[alodom@umkc.edu](mailto:alodom@umkc.edu)