



## Major Map: Secondary Education – Chemistry (single)

Catalog year: 2013 - 2014

### Four-Year Graduation Plan - Courses and Critical Benchmarks

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. **All incoming freshmen must develop an academic plan (which maps out all courses needed to graduate within your intended major/degree). Your academic advisor is available to meet with you and create your specific plan.**

*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 of checking prerequisites to any courses. Critical courses and benchmark indicate academic requirements for each term of enrollment.*

Critical Course or Benchmark ◆	Course Subject, Number, and Title and Academic Plan Benchmarks <b>Bold = UMKC General Education Core Requirement</b> *Prerequisite May Be Required **Co-Requisite Enrollment Required	Hours	Min. Recommended Grade	Notes
<b>Fall Semester Year 1: 15 hours</b>				
	<b>**Anchor I: Reasoning and Values</b>	3		CHEM 211 meets Focus B.
	<b>**Discourse I: DISC 100 - Reasoning and Values</b>	3		
◆	BIOLOGY 108/108L: General Biology I with Lab	3/1	B	
◆	CHEM 211/211L: General Chemistry I with Lab	4/1	B	
◆	Complete 12 term hours minimum toward degree Earn 2.750 minimum cumulative UM GPA Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEM, TCH-ED, and EDUC courses			
<b>Spring Semester Year 1: 16 hours</b>				
	<b>**Anchor II: Culture and Diversity</b>	3		
	<b>**Discourse II: DISC 200 - Culture and Diversity</b>	3		
◆	*CHEM 212R/212LR: General Chemistry II with Lab	4/1	B	
	ENV-SCI 110R/110L: Understanding the Earth with Lab	3/2	B	
◆	Complete Anchor I and Discourse I Complete 30 total hours toward degree Earn a cumulative UM GPA of a 2.750 or higher Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEM, TCH-ED, and EDUC courses			
<b>Fall Semester Year 2: 15 hours</b>				
	<b>**Anchor III: Community &amp; Civic Engagement</b>	3		
	<b>**Discourse III: DISC 300 - Culture and Diversity</b>	3		
◆	*CHEM 321/321L: Organic Chemistry I with Lab	4/1	B	
	PHYSICS 210: General Physics I	4	B	
◆	Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEM, TCH-ED, and EDUC courses			



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Spring Semester Year 2: 14 hours			
	<b>Focus C - Human Values &amp; Ethical Reasoning</b>	3	
◆	*CHEM 322R/322L: Organic Chemistry II with Lab	4/1	B
	GEOLOGY 220: General Geology I	3	B
	TCH-ED 385: Teaching and Learning with Technology	3	
◆	Complete Anchor II and Discourse II Complete the Missouri General Education Assessment (MoGEA) Complete the RooWriter Assessment Complete 60 hours toward degree Earn a cumulative UM GPA of a 2.750 or higher Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEMISTRY, TCH-ED, and EDUC courses		
Recommend HIST 1100 or 1101 to meet Focus C. This course will prepare you for the MoGEA.			
Fall Semester Year 3: 12 hours			
	<b>Focus A – Arts and Humanities</b>	3	
	*CHEM 330: Elementary Physical Chemistry	3	B
	*CHEM 341: Analytical Chemistry I	3	B
	*CHEM 367: Bioorganic Chemistry I	3	B
	Apply to the Teacher Education Program Complete the Content Assessment Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEMI, TCH-ED, and EDUC courses		
Required to complete a background check along with applying for substitute teaching license.			
Spring Semester Year 3: 12 hours			
	*CHEM 387: Environmental Chemistry I	3	B
	TCH-ED 403: Educational Psychology	3	
	TCH-ED 404: Education of the Exceptional Child	3	
	TCH-ED 420: Adolescent Development	3	
	Earn a cumulative UM GPA of a 2.750 or higher Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEM, TCH-ED, and EDUC courses		
Complete interview for Teacher Education program. All test need to be completed by June 1 <sup>st</sup> .			
Summer Semester Year 3: 10 hours			
	TCH-ED 430: Gateway to Teaching	3	
	EDUC 428: Cultural Diversity in American Education	3	
	TCH-ED 408WI: Advanced Foundations	3	
	TCH-ED 422: Practicum I	1	
	Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEM, TCH-ED, and EDUC courses		
Fall Semester Year 4: 14 hours			
	TCH-ED 423: Practicum II	2	
	TCH-ED 427: Reading in the Secondary School	3	
	TCH-ED 435: Special Methods Science	3	
	TCH-ED 438: Culturally Responsive Strategies	3	
	TCH-ED 470: Philosophy & History of Science & Tech.	3	
◆	Earn a cumulative UM GPA of a 2.750 or higher Earn a B or higher in all BIOLOGY, GEOG, GEOLOGY, PHYSICS, ENV-SCI, CHEM, TCH-ED, and EDUC courses		
Spring Semester Year 4: 12 hours			
	TCH-ED 437: Student Teaching – Secondary	10	
	TCH-ED 495: Science Capstone	2	



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	Apply for graduation			
	Apply for certification			

**Note: Subject area grade point average (GPA) is made up of all completed BIOLOGY, CHEMISTRY, GEOLOGY, ENVIRONMENTAL SCIENCE, and PHYSICS courses.**

Non-course requirements	Met
RooWriter	<input type="checkbox"/>
Teacher Education Application	<input type="checkbox"/>
Missouri General Education Assessment (MoGEA)	<input type="checkbox"/>
Substitute Certification	<input type="checkbox"/>
Background Check	<input type="checkbox"/>
Pedagogical Assessment	<input type="checkbox"/>
Content Assessment	<input type="checkbox"/>
Disposition Assessment	<input type="checkbox"/>

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.

### Graduation Requirements Summary:

Total Hours (120 minimum)	Totals Hrs at UMKC (30 hours minimum)	Major GPA (2.0 Minimum)	UMKC GPA
	See Advisor	2.75 cumulative; 3.0 content; 3.0 professional	2.75

### Program Description

The School of Education, organized officially as a separate academic division in 1954, was the result of the University of Kansas City's involvement in professional education since 1940. At that early date the University was offering an M.A. in education, heavily liberal-arts laden, with most classes conducted in the summer and evenings. An undergraduate major in elementary education was established in 1952, and the first University of Kansas City doctoral program, the Ph.D. in education, was inaugurated with the organizing of the school in 1954. Since 1954, the school has grown to include three disciplinary divisions with 19 programs, offering bachelor of arts, master of arts, educational specialist, education doctorate and doctor of philosophy degree programs. Several degree and certification programs are offered in cooperation with the School of Biological Sciences, the Conservatory of Music and the College of Arts and Sciences. The mission of the School of Education is to recruit, prepare and support outstanding teachers, mental health professionals and administrators who will create lifelong opportunities through education for America's diverse urban communities. This mission is centered on six key values which embody the knowledge, skills and dispositions expected of our candidates across the School of Education. The goals defined by individual programs are more specific subsets of these broader goals:

- Academic excellence.
- Strategic innovation.



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- Inquiry leading to reflective decision making and problem solving.
- Skilled and knowledgeable professionals working collaboratively.
- Democracy, diversity and social justice.
- Caring and safe environments.

### Admission Requirements

- Admission to UMKC (<http://umkc.edu/admission>)
- Completed the majority of specific pre-education and subject area course work prior to start of the professional education semesters;
- Attained a cumulative grade point average of at least 2.75;
- Attained a subject-area grade point average of at least 3.0 (middle school, secondary, and K-12);
- Submitted acceptable results from an Missouri FBI background check;
- Passed the Missouri General Education Assessment, Content Assessment and Pedagogical Assessment;
- Completed the application for the School of Education first Bachelor's degree seekers:
- Submitted a score from the ACT or SAT; (if graduated from High School in past 5 years)
- Pass ROO Writer Exam before taking the required writing intensive course.

Instructions are available at the School of Education web site: <http://education.umkc.edu/applyte>

### Career Opportunities

To learn more about career opportunities for Education majors please [click here](#).

### Contact Information

**Questions?** Call the School of Education Student Services office at 816-235-2234 or e-mail [education@umkc.edu](mailto:education@umkc.edu). Those with speech or hearing impairments may use Relay Missouri, 1-800-735-2966 (TT) or 1-800-735-2466 (voice). UMKC is an equal opportunity/affirmative action institution.