

Four Year Graduation Plan – Courses & 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. For more information see the University Catalog at umkc.edu/catalog.

Your path to graduation may vary 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. Critical Courses and minimum recommended grades (as noted below) provide feedback regarding major fit and help indicate likelihood of successful completion of chosen academic program and degree.

Please Note: Students who do not place into MATH 110 College Algebra or higher may have to complete preparatory math coursework, potentially adding 3 hours to the total hours required for the degree.

This major map is intended for Chemistry BA students interested in pursuing graduate study in a medical profession. The coursework below includes both the degree requirements for the Chemistry BA as well as recommended coursework to prepare for graduate study.

First Math Course:	MATH 110 College Algebra OR MATH 120 Pre-Calculus	Foreign Language Requirement:	Yes	General Elective Hours:	38
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Critical Course	Course Subject, Number, & Title and Academic Plan Benchmarks Bold = UMKC General Education Core requirement ** Co-Requisite Enrollment Required	Min. Rec. Grade	Credit Hours	Notes
Fall Semester Year 1: 14-16 hours				
◆	**CHEM 211 + 211L General Chemistry I with Lab (Focus B)	C-	5	¹ Enrollment restricted. Must take ALEKS Math Placement Exam or show prerequisite requirement has been met prior to enrolling.
◆	MATH 110 College Algebra ¹ (Focus Elective) OR MATH 120 Pre-Calculus ¹ (Focus Elective) OR BIOLOGY 108 + 108L General Biology I with Lab (Focus Elective) OR BIOLOGY 109 + 109L General Biology II with Lab (Focus Elective)	C-	3-5	
	**Anchor I Reasoning & Values Click for options		3	
	**DISC 100 Reasoning & Values (Speech & Writing) Click for options		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 1: 14-16 hours				
◆	**CHEM 212R + 212LR General Chemistry II with Lab	C-	5	Register for UMKC Roo Career Network .
◆	MATH 210 Calculus I OR STAT 235 Elementary Statistics OR BIOLOGY 108 + 108L General Biology I with Lab OR BIOLOGY 109 + 109L General Biology II with Lab	C-	3-5	
	**Anchor II Culture & Diversity Click for options		3	
	**DISC 200 Culture & Diversity (Speech & Writing) Click for options		3	
Complete 14+ credit hours toward degree Earn minimum 2.00 term GPA				
Summer Semester Year 1: 0-4 hours				
◆	MATH 110 OR MATH 120 (if not previously completed)	C-	3-4	

Complete Math Requirement Complete Anchor I & DISC 100 Complete at least 30 total credit hours toward degree Maintain a minimum 2.00 cumulative GPA				Recommend completing MATH 110 or 120 over the summer if tested into MATH 100.
Fall Semester Year 2: 14 hours				
◆	**CHEM 321 + 321L Organic Chemistry I with Lab		4	Take the RooWriter Assessment after completing DISC 200. Must complete prior to enrolling in a Writing Intensive (WI) course. ² The Foreign Language placement exam is highly recommended to ensure placement in the correct course level.
	Foreign Language Requirement ² (110 or higher) Click for options		3	
	PHYSICS 210 General Physics I		4	
	Focus A Arts & Humanities Click for options OR MATH 210 Calculus I OR STAT 235 Elementary Statistics OR BIOL 202 Cell Biology		3	
Complete 14 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 2: 17 hours				
	**CHEM 322R + 322L Organic Chemistry II with Lab		4	
◆	PHYSICS 220 General Physics II		4	
	Foreign Language Requirement (120 or higher) Click for options		3	
	CAS Social & Behavioral Sciences Requirement Click for options OR MATH 210 Calculus I OR STAT 235 Elementary Statistics OR BIOL 202 Cell Biology		3	
	General Elective		3	
Complete 14 credit hours toward degree Earn minimum 2.00 term GPA				
Summer Semester Year 2: 0 hours				
Complete Anchor II & DISC 200 Complete Foreign Language Requirement (120 or higher) Complete RooWriter Assessment Complete at least 60 credit hours toward degree Maintain minimum 2.00 cumulative GPA				Students may use the summer to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.
Fall Semester Year 3: 15-17 hours				
	CHEM 3XX/4XX Major Elective OR LS-BIOC 341 Basic Biochemistry OR LS-BIOC 365 Human Biochemistry I		3	
	Foreign Language Requirement (211 or higher) Click for options		3	
	** Anchor III Civic & Community Engagement Click for options		3	
	** DISC 300 Civic & Community Engagement (Speech & Writing) Click for options		3	
	LS-ANATO 218 + 218L Introductory Anatomy with Lab OR General Elective		3-5	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 3: 14 hours				
	CHEM 341WI Analytical Chemistry I		4	³ HISTORY 101, 102, & POL-SCI 210 fulfill both the Focus C & Missouri Constitution requirement .
	Focus C Human Values & Ethical Reasoning Click for options		3	
	CAS Social & Behavioral Sciences Requirement Click for options (Complete MO Constitution requirement ³ if not met above)		3	

	LS-PHYS 217 + 217L Human Physiology with Lab		4	
Complete 16 credit hours toward degree Earn minimum 2.00 term GPA				
Summer Semester Year 3: 0 hours				
Complete Anchor III & DISC 300 Complete Foreign Language Requirement (211 or higher) Complete at least 90 credit hours towards degree Maintain minimum 2.00 cumulative GPA				Students may use the summer to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.
Fall Semester Year 4: 15 hours				
	CHEM 3XX/4XX Major Elective		3	Apply for graduation & complete your Final Degree Audit for Major and Minor (if applicable). Take the ETS Proficiency Profile (EPP) exit exam.
	Focus A Arts & Humanities Click for options (if not completed above) OR General Elective		3	
	CAS Arts & Humanities Requirement Click for options		3	
	CAS Social & Behavioral Sci Click for options (if not completed above) OR General Elective		3	
	General Elective (Recommend 300/400 level)		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 4: 12-15 hours				
	CAS Arts & Humanities Requirement Click for options		3	Take Major Field (MF) exit exam.
	General Elective (Recommend 300/400 level)		3	
	General Elective (Recommend 300/400 level)		3	
	General Elective (Recommend 300/400 level)		3	
	General Elective (Only if needed to reach 120 hours)		0-3	
Earn minimum 2.00 term GPA				

Graduation Requirements Summary

Total Hours	Total Hours at UMKC	Upper Lvl Hrs in Major at UMKC	Upper (300 / 400) Level Hours	Major GPA	UMKC GPA
120 minimum	30 minimum	12 minimum	36 minimum	2.00 minimum	2.00 minimum

Other Information

A minimum of 30 hours must be earned at the University of Missouri-Kansas City, regardless of the number and level of hours earned at another institution. Undergraduate degree-seeking students are required to earn credit in at least 36 hours of coursework numbered 300 and above at UMKC. In the case of transfer credit, the coursework must be numbered as junior-senior level work by the transferring institution. Community-college transfer coursework cannot count towards the 36-hour requirement.

Non-course Requirements

RooWriter Assessment _____
Major Field Exam _____
ETS Proficiency Profile _____

Policy

The University reserves the right to make changes in courses and course schedules. 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 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.

Advising Contact Information

College of Arts & Sciences Student Services
09 Scofield Hall (basement)
<http://cas.umkc.edu/advising/default.asp>
816-235-1148

Career Opportunities

UMKC Career Services – career.umkc.edu | 816-235-1636 | 2nd Floor, Atterbury Student Success Center.
O*Net OnLine – OnetOnline.org Learn about careers related to your major, income potential, and more.