

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 STAT 235 Elementary Statistics, MATH 210 Calculus I, or MATH 216 Calculus for Biological Sciences may have to complete preparatory math coursework, potentially adding 3 – 6 hours to the total hours required for the degree.

First Math Course:	MATH 220 Calculus I OR MATH 216 Calculus for Bio Sciences OR STAT 235 Elementary Statistics	Foreign Language Requirement:	No	General Elective Hours:	36
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Critical Course	Course Subject, Number, & Title and Academic Plan Benchmarks Bold = UMKC General Education Core requirement *Prerequisite May Be Required ** Co-Requisite Enrollment Required	Min. Rec. Grade	Credit Hours	Notes	
Fall Semester Year 1: 15-16 hours					
◆	BIOLOGY 108 General Biology I (Focus B) + BIOLOGY 108L Lab OR BIOLOGY 109 General Biology II (Focus B) + BIOLOGY 109L Lab	B	4	A grade of B (3.00) or higher in Biology, Chemistry, & Mathematics courses is a realistic benchmark for students to successfully complete a biology degree. Students must earn at least a C- in major courses for them to satisfy major requirements.	
◆	*CHEM 211 General Chemistry I (Focus Elective) + CHEM 211L Lab OR *STAT 235 Elementary Statistics ¹ (Focus Elective) OR *MATH 210 Calculus I ¹ (Focus Elective) OR *MATH 216 Calculus for Biological Sciences ¹ (Focus Elective) OR	B	4-5		
	BIOLOGY 115 First Year Seminar (strongly recommended, not required)		1		
	**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				Register for UMKC Roo Career Network .	
Spring Semester Year 1: 15 hours					
◆	BIOLOGY 108 General Biology I + BIOLOGY 108L Lab OR BIOLOGY 109 General Biology II + BIOLOGY 109L Lab	B	4		
◆	**CHEM 212R General Chemistry II (Focus Elective) + Lab OR **CHEM 211 General Chemistry I (Focus Elective) + Lab	B	5		
	**ANCHOR II Culture & Diversity Click for options		3		
	**DISC 200 Culture & Diversity (Speech & Writing) Click for options		3		
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA					
Summer Semester Year 1: 0 hours					
Complete BIOLOGY 108: General Biology I + BIOLOGY 108L: General Biology I Laboratory Complete BIOLOGY 109: General Biology II + BIOLOGY 109L: General Biology II Laboratory Complete CHEM 211: General Chemistry I + CHEM 211L: Experimental General Chemistry I Maintain 2.00 minimum cumulative GPA Maintain 2.00 minimum cumulative Biology GPA Complete 30 total hours toward degree				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 2: 15-16 hours				
◆	*BIOLOGY 202 Cell Biology OR *BIOLOGY 206 Genetics	B	3	Take the RooWriter Assessment after completing DISC 200. Must complete prior to enrolling in a Writing Intensive (WI) course
	*MATH 210 Calculus I OR *MATH 216 Calculus for Biological Sciences OR *STAT 235 Elementary Statistics	B	3-4	
	Focus A Arts & Humanities Click for options		3	
	General Elective		3	
	General Elective		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 2: 14 hours				
◆	*BIOLOGY 202 Cell Biology OR *BIOLOGY 206 Genetics		3	² HISTORY 101, 102, & POL-SCI 210 fulfill both the Focus Elective & Missouri Constitution requirement.
	CHEM 320 Elementary Organic Chemistry + CHEM 320L Lab		5	
	Focus C Human Actions, Values, & Ethics HISTORY 101, 102, or POL-SCI 210 recommended ² Click for options		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 CHEM 320 Elementary Or Maintain 2.00 minimum cumulative GPA. Maintain 2.00 minimum cumulative Biology GPA. Complete at least 60 credit hours toward degree.				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: 15-16 hours				
	LS-BIOC 341 Basic Biochemistry		3	Students must complete a Writing Intensive (WI) course in the School of Biological Sciences. ³ The WI requirement may be met with a Writing Intensive Laboratory course (WL).
	BIOLOGY 3XX/4XX Major Elective		3	
	*PHYSICS 210 General Physics I OR *PHYSICS 240 Physics for Scientists & Engineers I		4-5	
	BIOLOGY Laboratory Elective ³ Click for options		2	
	General Elective		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 3: 15 hours				
	BIOLOGY 3XX/4XX Major Elective		3	Students should complete appropriate admission exams for professional health or graduate program applications, e.g. MCAT, DAT, GRE.
	BIOLOGY 3XX/4XX Major Elective (Writing Intensive if not met above)		3	
	**ANCHOR III Community & Civic Engagement Click for options		3	
	**DISC 300 Community & Civic Engagement Click for options		3	
	General Elective		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Summer Semester Year 3: 0 hours				

Maintain 2.00 minimum cumulative GPA. Maintain 2.00 minimum cumulative Biology GPA. Complete at least 90 credit hours toward degree.	Students may use the summer to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.
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Fall Semester Year 4: 15 hours

	BIOLOGY 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. Take Major Field (MF) exit exam.
	BIOLOGY 3XX/4XX Major Elective		3	
	General Elective		3	
	General Elective		3	
	General Elective		3	
Complete ANCHOR III & DISC 300 Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				

Spring Semester Year 4: 12 – 15 hours

	Biology Synthesis Requirement BIOLOGY 498WI ⁴ Critical Analysis of Biological Issues OR LIFE-SCI 497 Special Topics Click for options OR LIFE-SCI 499 Undergraduate Research Click for options		3	⁴ BIOLOGY 498WI includes the Biology Major Field Exam as part of the course.
	BIOLOGY 3XX/4XX Major Elective		3	
	General Elective		3	
	General Elective		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	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 Writing Assessment	Met
ETS Proficiency Profile (EPP) exam	___
Major Field (MF) exam	___

Policy

The University reserves the right to make changes in courses 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.

Advising Contact Information

School of Biological Sciences Academic Support
SBS-undergrad@umkc.edu
http://sbs.umkc.edu/undergraduate_support.cfm
816-235-2580

Career Opportunities

UMKC Career Services – career.umkc.edu | 816-235-1636 | 2nd Floor, Atterbury Student Success Center
O*Net OnLine – OnetOnline.org Enter the Classification of Instructional Programs (CIP) number of your major to learn about related careers.
Major CIP: 260101