

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 must have successfully passed (with a "C-" or better) College Algebra or Pre-Calculus or a combination of College Algebra and Trigonometry for college credit to be prepared for major math sequence. **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 210 Calculus I OR MATH 216 Calculus for Bio Sciences OR STAT 235 Elementary Statistics	Foreign Language Requirement:	No	General Elective Hours:	30
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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
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Fall Semester Year 1: 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	Enrollment in BIOLOGY 108 and/or 109 is based on ACT scores. Transfer students should consult with an advisor before enrolling. 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. A grade of C- or higher required to satisfy major requirements.
◆	**CHEM 211 General Chemistry I (Focus Elective) + CHEM 211L Lab	B	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 at least 16 credit hours toward degree Earn minimum 2.00 University of Missouri (UM) cumulative GPA and UM Biology GPA				

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	Register for UMKC Roo Career Network . Students who are planning to complete their degree in 4-years should aim to average at least 30 credit hours per academic year (Fall, Spring, Summer) to stay on track.
◆	**CHEM 212R General Chemistry II + Lab	B	5	
	**ANCHOR II Culture & Diversity Click for options		3	
	**DISC 200 Culture & Diversity (Speech & Writing) Click for options		3	
Complete at least 15 term credit hours Maintain minimum 2.00 UM cumulative GPA and UM Biology GPA				

Summer Semester Year 1: 0 hours

Complete ANCHOR I & DISC 100 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 minimum 2.00 UM cumulative GPA and UM 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.
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Fall Semester Year 2: 16-17 hours				
◆	BIOLOGY 202 Cell Biology OR BIOLOGY 206 Genetics	B	3	<p>Take the RooWriter Assessment after completing DISC 200. Must complete prior to enrolling in a Writing Intensive (WI) course</p> <p>¹ Enrollment restricted. Must take ALEKS Math Placement Exam or show prerequisite requirement has been met prior to enrolling.</p>
	*MATH 120 Precalculus ¹ OR *MATH 210 Calculus I ¹ OR *MATH 216 Calculus for Biological Sciences ¹ OR *STAT 235 Elementary Statistics ¹	B	3-4	
	Focus A Arts & Humanities Click for options		3	
	LS 201 Healthcare Professions Seminar (recommended, not required)		1	
	General Elective		3	
	General Elective		3	
<p>Complete at least 16 credit hours toward degree Maintain minimum 2.00 UM cumulative GPA and UM Biology GPA</p>				
Spring Semester Year 2: 14 hours				
◆	BIOLOGY 202 Cell Biology OR BIOLOGY 206 Genetics		3	<p>Students planning to continue their education in professional or graduate programs should meet with their advisor to discuss application timelines and requirements.</p> <p>² HISTORY 101, 102, & POL-SCI 210 fulfill both the Focus C & Missouri Constitution requirement.</p>
◆	**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	
<p>Complete at least 14 credit hours toward degree Maintain minimum 2.00 UM cumulative GPA and UM Biology GPA</p>				
Summer Semester Year 2: 0 hours				
<p>Complete ANCHOR II & DISC 200 Complete RooWriter Assessment Complete CHEM 320: Elementary Organic Chemistry + CHEM 320L: Experimental Organic Chemistry Maintain minimum 2.00 UM cumulative GPA and UM Biology GPA Complete 60 credit hours toward degree</p>				<p>Students may use the summer to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.</p>
Fall Semester Year 3: 16-17 hours				
	LS-BIOC 441 Biochemistry		3	<p>Students must complete a Writing Intensive (WI) course in the School of Biological Sciences.</p> <p>³ The WI requirement may be met with a Writing Intensive Laboratory course (WL).</p> <p>⁴ BIOLOGY 201 prepares students for application to internships, graduate programs, or employment. Skills assessment, resume development, opportunity identification, application, interview, and letters of evaluation are discussed.</p>
	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	
	BIOLOGY 201 Preparing for Careers in Biology ⁴ (recommended)		1	
	General Elective		3	
<p>Complete at least 16 credit hours toward degree Maintain minimum 2.00 UM cumulative GPA and UM Biology GPA</p>				
Spring Semester Year 3: 16 hours				
	BIOLOGY 3XX/4XX Major Elective		3	<p>Apply for graduation & complete your Final Degree Audit for Major and Minor (if applicable).</p> <p>Students should complete appropriate admission exams for</p>
	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	

	LIFE-SCI 202 Exploring Healthcare Professions ⁵ (recommended)		1	professional health or graduate program applications, e.g. MCAT, DAT, GRE.
	General Elective		3	
<p>Complete at least 15 credit hours toward degree Maintain minimum 2.00 UM cumulative GPA and UM Biology GPA</p>				<p>⁵LIFE-SCI 202 Prepares students for application to professional health programs. School selection, application, personal statement, interviewing, and letters of evaluation are discussed.</p>
Summer Semester Year 3: 0 hours				
<p>Complete ANCHOR III & DISC 300 Maintain minimum 2.00 UM cumulative GPA Maintain minimum 2.00 UM Biology GPA Complete 90 credit hours toward degree</p>				<p>Students may use the summer to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.</p>
Fall Semester Year 4: 15 hours				
	BIOLOGY 3XX/4XX Major Elective		3	<p>Take the ETS Proficiency Profile (EPP) & Biology Major Field Exams (MFE)</p> <p>Students planning to take BIOLOGY 498WI will complete the MFE as part of that course.</p>
	BIOLOGY 3XX/4XX Major Elective		3	
	General Elective		3	
	General Elective		3	
	General Elective		3	
<p>Maintain minimum 2.00 UM cumulative GPA Maintain minimum 2.00 UM Biology GPA</p>				
Spring Semester Year 4: 12-15 hours				
	Biology Synthesis Requirement BIOLOGY 498WI Critical Analysis of Biological Issues ⁶ OR LIFE-SCI 497 Special Topics Click for options OR LIFE-SCI 499 Undergraduate Research Click for options		3	<p>⁶ BIOLOGY 498WI includes the Biology Major Field Exam as part of the course.</p>
	BIOLOGY 3XX/4XX Major Elective		3	
	General Elective		3	
	General Elective		3	
	General Elective (only if needed to reach 120 hours)		0-3	
<p>Complete Major Field Exam for Biology Complete ETS Proficiency Profile Maintain minimum 2.00 UM cumulative GPA Maintain minimum 2.00 UM Biology GPA Complete a minimum of 120 total hours toward degree</p>				

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	21 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
ETS Proficiency Profile (EPP) exam
Major Field (MF) exam

Met

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 Learn about careers related to your major, income potential, and more.