

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 210 Calculus I or higher will have to complete preparatory math coursework.

First Math Course:	MATH 210 Calculus I	Foreign Language Requirement:	Yes	General Elective Hours:	23
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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
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Fall Semester Year 1: 14-17 hours

◆	MATH 210 Calculus I ¹ (Focus B) OR MATH 120 Pre-Calculus ¹ (Focus B) OR MATH 125 Trigonometry ¹ (if MATH 110 Pre-Calculus Algebra completed)	B	2-5	¹ Enrollment restricted. Must take ALEKS Math Placement Exam or show prerequisite requirement has been met prior to enrolling. 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	
	**Anchor I Reasoning & Values Click for options		3	
	**DISC 100 Reasoning & Values (Speech & Writing) Click for options		3	
	General Elective		3	
Complete 14+ credit hours toward degree Earn minimum 2.00 term GPA				

Spring Semester Year 1: 15-16 hours

◆	MATH 220 Calculus II	B	4	³ BA Students are strongly encouraged to take PHYSICS 240 and 250. Register for UMKC Roo Career Network .
◆	PHYSICS 240 Physics for Scientists & Engineers I ³ (Focus Elective) OR PHYSICS 210 General Physics I (Focus Elective)	B	4-5	
	**Anchor II Culture & Diversity Click for options		3	
	**DISC 200 Culture & Diversity (Speech & Writing) Click for options		3	
	General Elective		1	
Complete 15+ credit hours toward degree Earn minimum 2.00 term GPA				

Summer Semester Year 1

Complete Anchor I & DISC 100 Complete at least one Foreign Language course (110 or higher) Complete at least 30 total credit hours toward degree Maintain a 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.
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Fall Semester Year 2: 15-16 hours

◆	CHEM 211 + 211L General Chemistry I with Lab	B	5	Take the RooWriter Assessment after completing DISC 200. Must complete prior to enrolling in a Writing Intensive (WI) course.
◆	PHYSICS 250 Physics for Scientists & Engineers II OR PHYSICS 220 General Physics II	B	4-5	
	Foreign Language Requirement (120 or higher)		3	
	Focus A Arts & Humanities Click for options		3	
Complete 15+ credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 2: 15 hours				
	PHYSICS 3XX/4XX Major Elective Click for options . (PHYSICS 350 Modern Physics recommended)		3	³ BA students must take at least one advanced lab course. All three advanced lab options are recommended.
	PHYSICS 3XX/4XX Major Elective Click for options . (PHYSICS 385L Advanced Lab Elementary Circuits recommended) ³		3	
	Focus C Human Values & Ethical Reasoning Click for options Recommend HISTORY 101, 102, or POL-SCI 210 ⁴		3	
	Foreign Language Requirement (211 or higher)		3	⁴ HISTORY 101, 102, & POL-SCI 210 fulfill both the Focus Elective & Missouri Constitution requirement .
	General Elective		3	
Complete 15 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 (211 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 hours				
	PHYSICS 310 Mechanics I		3	
	PHYSICS 330 Methods of Theoretical Physics I		3	
	PHYSICS 3XX/4XX Major Elective Click for options . (PHYSICS 395L Advanced Lab Computer Interfacing recommended)		3	
	**Anchor III Civic & Community Engagement Click for options		3	
	**DISC 300 Civic & Community Engagement (Speech & Writing) Click for options		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				
Spring Semester Year 3: 15 hours				
	PHYSICS 3XX/4XX Major Elective Click for options . (PHYSICS 420 Optics recommended)		3	
	CAS Social & Behavioral Sciences Requirement Click for options		3	
	CAS Social & Behavioral Sciences Requirement Click for options (Complete MO Constitution requirement if not met above)		3	
	CAS Arts & Humanities Requirement 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

Complete Anchor III & DISC 300 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.
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Fall Semester Year 4: 15 hours

	PHYSICS 3XX/4XX Major Elective Click for options.		3	Apply for graduation & complete your Final Degree Audit for Major and Minor (if applicable). Take the ETS Proficiency Profile (EPP) exit exam.
	PHYSICS 472 Introduction to Quantum Mechanics		3	
	PHYSICS 3XX/4XX Major Elective Click for options. (PHYSICS 476LW Advanced Lab Writing Intensive recommended)		3	
	General Elective		3	
	General Elective		3	
Complete 15 credit hours toward degree Earn minimum 2.00 term GPA				

Spring Semester Year 4: 12-15 hours

	PHYSICS 3XX/4XX Major Elective Click for options. (PHYSICS 420 Optics recommended)		3	Take Major Field (MF) exit exam.
	CAS Arts & Humanities Requirement Click for options		3	
	General Elective (CAS Writing Intensive Course if not completed above)		3	
	General Elective		3	
	General Elective (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.