

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 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.*

First Math	MATH 210, 120, or 125	Foreign Language Requirement	Yes	Free Elective Hours	12-17
------------	-----------------------	------------------------------	-----	---------------------	-------

Critical Course or Benchmark	Course Subject, Number, and Title and Academic Plan Benchmarks Bold = UMKC General Education Core Requirement *Prerequisite May Be Required **Co-Requisite Enrollment Required	Min Recom Grade	Credit Hours (CH)	Notes
------------------------------	---	-----------------	-------------------	-------

Fall Semester Year 1: 14-16 hours

	<b>**Anchor I: Reasoning and Values</b> <a href="http://www.umkc.edu/core/courses/">http://www.umkc.edu/core/courses/</a>		3	The ALEKS Math Placement Exam is required prior to enrollment in MATH 120 (or Math 210, unless pre-requisite course has been taken with C- or higher). <a href="http://www.umkc.edu/mathplacement/">www.umkc.edu/mathplacement/</a>
	<b>**DISC 100: Reasoning and Values</b> (Speech and Writing)		3	
	Foreign Language Requirement (110 or higher) <a href="http://cas.umkc.edu/ForeignLanguages/">http://cas.umkc.edu/ForeignLanguages/</a>		3	
◆	*MATH 210: Calculus I OR (CAS Science & Math Requirement) MATH 120: Precalculus OR MATH 125: Trig (if Math 110 has been completed for college credit already)	B	2-5	
	<i>Free Elective (only take this course if MATH 125 is taken above instead of 120 or 210)</i>		3	
◆	Complete 15 term hours toward degree (recommended), 12 minimum (required). Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.			MATH 120 or MATH 210 fulfills the CAS Math Requirement.
				Foreign Language is required for all B.A. degrees in the College of Arts and Sciences; The foreign language placement exam is highly recommended to ensure placement in the correct level. <a href="http://cas.umkc.edu/foreignlanguages/PlacementExam.asp">http://cas.umkc.edu/foreignlanguages/PlacementExam.asp</a>

Spring Semester Year 1: 15 hours

	<b>**Anchor II: Culture and Diversity</b> <a href="http://www.umkc.edu/core/courses/">http://www.umkc.edu/core/courses/</a>		3	*BA Students may take PHYSICS 210 instead of 240. PHYSICS 240 & 250 are strongly recommended.
	<b>**DISC 200: Culture and Diversity</b> (Speech and Writing)		3	
◆	*PHYSICS 240: Physics for Scientists and Engineers I ( <b>Focus B</b> )	B	5	Both PHYSICS 210 & 240 fulfill the <b>Focus B</b> : Scientific Reasoning & Quantitative Analysis Requirement.
◆	*MATH 220: Calculus II or *MATH 210: Calculus I (CAS Science & Math Requirement)	C	4	
◆	Complete Anchor I and DISC 100. Complete at least one Foreign Language course (110 or higher).			

- Complete 15 term hours toward degree (recommended), 12 minimum (required).  
Complete 30 total hours minimum toward degree.  
Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.

Summer Semester Year 1: 0 hours if all previous courses completed

May use summer semester ensure completion of 30 hours per academic year or to lighten fall and spring course loads.

- Complete MATH 220: Calculus II.

Fall Semester Year 2: 14-15 hours

◆	Foreign Language Requirement (120 or higher)		3	Take the RooWriter Writing Assessment the semester immediately following DISC 200 and at least a semester before registering for a Writing Intensive course.  *BA Students may take PHYSICS 220 instead of 250.
◆	*PHYSICS 250: Physics for Scientists & Engineers II	B	4-5	
◆	Recommended Elective - MATH 250: Calculus III	B	4	
	<b>Focus A: Arts and Humanities</b> <a href="http://www.umkc.edu/core/courses/">http://www.umkc.edu/core/courses/</a>		3	
◆	Complete 15 term hours toward degree (recommended), 12 minimum (required). Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.			

Spring Semester Year 2: 15 hours

◆	Recommended Elective - PHYSICS 350: Modern Physics		3	POL-SCI 210, HISTORY 101 or 102 fulfill <b>Focus C: Human Actions, Values, and Ethics</b> as well as the Missouri Constitution requirement.  ^BA students must take at least one upper division lab course. All three are recommended.
◆	^PHYSICS 385L: Advanced Lab (Elementary Circuits)		3	
	<b>Focus C: Human Actions, Values, and Ethics</b> (May choose Course to also fulfill MO Constitution Requirement) - <a href="#">Click for Options</a>		3	
	Foreign Language Requirement (211 or higher)		3	
	<b>Focus Elective</b> <a href="http://www.umkc.edu/core/courses/">http://www.umkc.edu/core/courses/</a>		3	
◆	Complete Anchor II and DISC 200. Complete Foreign Language Requirement (211 or higher). Complete 15 term hours toward degree (recommended), 12 minimum (required). Complete 60 total hours toward degree. Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.			

Summer Semester Year 2: 0 hours if all previous courses completed

May use summer semester ensure completion of 30 hours per academic year or to lighten fall and spring course loads.

Fall Semester Year 3: 15 hours

	<b>**Anchor III: Civic and Community Engagement</b> <a href="http://www.umkc.edu/core/courses/">http://www.umkc.edu/core/courses/</a>		3	^BA students must take at least one upper division lab course. All three are recommended.
	<b>**DISC 300: Civic and Community Engagement</b> (Speech and Writing)		3	
	PHYSICS 310: Mechanics I		3	
	PHYSICS 330: Methods of Theoretical Physics I		3	
	^PHYSICS 395L: Advanced Lab (Computer Interfacing)		3	

Complete RooWriter Writing Assessment.  
 Complete 15 term hours toward degree (recommended), 12 minimum (required).  
 Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.

**Spring Semester Year 3: 14 hours**

<b>Focus B: Scientific Reasoning and Quantitative Analysis</b> CHEM 211: General Chemistry I		4
CHEM 211L: General Chemistry I Laboratory		1
CAS Social & Behavioral Sciences Requirement <a href="#">Click for options</a>		3
CAS Arts & Humanities Requirement <a href="#">Click for options</a>		3
Missouri Constitution course (if not fulfilled above) <a href="#">Click for options</a> OR other CAS Social & Behavioral Sciences Requirement <a href="#">Click for options</a>		3

Complete 15 term hours toward degree (recommended), 12 minimum (required).  
 Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.

**Summer Semester Year 3: 0 hours if all previous courses completed**

**Fall Semester Year 4: 15 hours**

PHYSICS 3XX/4XX: Physics Elective <a href="#">Click for options</a>		3	Apply for graduation.  Take the ETS Proficiency Profile (EPP) exit exam.  ^BA students must take at least one upper division lab course. All three are recommended. All BA students must complete a writing intensive course.
PHYSICS 472: Intro to Quantum Mechanics		3	
^PHYSICS 476LW: Advanced Lab (CAS Writing Intensive Requirement)		3	
CAS Social & Behavioral Sciences Requirement <a href="#">Click for options</a>		3	
Free Elective		3	

Complete 15 term hours toward degree (recommended), 12 minimum (required).  
 Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.

**Spring Semester Year 4: 15-17 hours**

PHYSICS 3XX/4XX: Physics Elective (recommend: PHYSICS 420: Optics)		3	In combination with required upper-level courses, take enough Free Elective hours at the 300/400-level to meet the minimum requirement of 36 upper-level credit hours.  Take Major Field (MF) exam.
CAS Arts & Humanities Requirement <a href="#">Click for options</a>		3	
Free Elective		3	
Free Elective		3	
Free Elective		3	
<i>Free Elective (only take these credits if needed to reach 120 minimum hours)</i>		0-2	

Complete 15 term hours toward degree (recommended), 12 minimum (required).  
 Earn minimum 2.000 term GPA and minimum 2.00 cumulative UM GPA.

**Graduation Requirements Summary**

<b>Total Degree Credit Hours</b>	<b>Upper Level (3xx/4xx) Hour Requirement</b>	<b>Minimum Hour / Residency Req.</b>
120	36	30

Major GPA	UM GPA	Other GPA Requirements	Other
2.0	2.0		

**Policy**

<b>Non-course requirements</b> RooWriter Writing Assessment ETS Proficiency Profile (EPP) exam Major Field (MF) exam	<b>Met</b>
---	------------

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.

**Academic and Career Advising**

College of Arts and Sciences Advising      09 Scofield Hall (Basement)      816.235.1148  
<http://cas.umkc.edu/advising/default.asp>

UMKC Career Services Resources: <http://www.career.umkc.edu/>  
 O\*Net OnLine: <http://www.onetonline.org/>