

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	STAT 235, MATH 210, or MATH 216	Foreign Language Requirement	No	Free Elective Hours	No Free Electives
------------	---------------------------------	------------------------------	----	---------------------	-------------------

Transfer Credit Notes:

AP, IB, CLEP, or transfer credit may be applied to select courses below. See [UMKC Registration and Records](#) for details. Students may satisfy the **DISC 100 Requirement** with ACT English subscore of 30 or above or SAT verbal subscore of 690 or above. One of the following courses must be completed before beginning the 6-year combined degree curriculum in order to be able to complete the BA Biology:
 -BIOLOGY 108 AND 108L: General Biology I (LEC and LAB) **Focus B**
 OR
 -CHEM 211 AND 211L: General Chemistry I (LEC and LAB) **Focus B**

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: 22-23 hours

	**Anchor I: Reasoning and Values http://www.umkc.edu/core/courses/		3	
	**DISC 100: Reasoning and Values (Speech and Writing)		3	
◆	LS-ANATO 219: Functional Anatomy I AND LS-ANATO 218L: Introductory Anatomy Laboratory	5	B	
◆	Focus B: BIOLOGY 108 AND 108L: General Biology I (LEC and LAB) OR CHEM 211 AND 211L: General Chemistry I (LEC and LAB) OR CHEM 212R and 212LR: General Chemistry II (LEC and LAB)	B	4-5	
◆	MEDICINE 9110: Fundamentals of Medicine I	SP	5	
◆	MEDICINE 9115: Medical Terminology		1	
◆	MEDICINE 9119: Learning Basic Medical Science		1	
◆	Earn minimum of 2.8 cumulative UM GPA. Completion of 12 term hours minimum toward degree.			

Spring Semester Year 1: 19-20 hours

◆	LS-MCRB 121 AND LS-MCRB 121L: Human Biology II (Microbiology LEC and LAB) Focus Elective	B	4	
◆	BIOLOGY 108 and 108L: General Biology I (LEC and LAB) OR CHEM 212 AND 212L: General Chemistry II (LEC and LAB)	B	4-5	
◆	MEDICINE 9120: Fundamentals of Medicine II	SP	5	

UMKC Major Map: Bachelor of Arts in Biology/MD (Six-Year Med)

First-Time College Students

Catalog Year: 2016 - 2017

	PSYCH 210: General Psychology Focus C		3
	SOCIOL 101: Sociology - An Introduction		3
◆	Completion of Anchor I and DISC 100. Earn minimum of 2.800 cumulative UM GPA. Earn minimum of 2.800 cumulative SOM GPA. Completion of 12 term hours minimum toward degree. Completion of 30 total hours toward degree.		

Summer Semester Year 2: 9 hours

◆	CHEM 320: Elementary Organic Chemistry AND CHEM 320L: Experimental Organic Chemistry	B	5
◆	BIOLOGY 202: Cell Biology	B	3
	MEDICINE 9221: Hospital Team Experience		1
◆	<i>Earn 2.8 minimum Grade Point Average .</i>		

Fall Semester Year 2: 22 hours

◆	**Anchor II: Culture and Diversity http://www.umkc.edu/core/courses/		3	Complete RooWriter writing assessment after completion of DISC 200 and before earning 90 credit hours.
◆	**DISC 200: Culture and Diversity (Speech and Writing)		3	
◆	BMS 9265: Human Biochemistry	B	5	
◆	BIOLOGY 206: Genetics	B	3	
◆	SOCIOL 211: Sociology Life Cycles		3	
◆	MEDICINE 9210: Fundamentals of Medicine III	SP	5	
◆	Completion of Anchor II and DISC 200. Earn minimum of 2.800 cumulative UM GPA. Earn minimum of 2.800 cumulative SOM GPA.			

Spring Semester Year 2: 23 hours

◆	BMS 9296: Human Structure Function I	B	7
◆	BMS 9297: Human Structure Function II	B	6
◆	BMS 9298: Human Structure Function III	B	5
◆	MEDICINE 9220: Fundamentals of Medicine IV	SP	5
◆	Complete RooWriter Writing Assessment. Earn minimum of 2.800 cumulative UM GPA. Earn minimum of 2.800 cumulative SOM GPA.		

Summer Semester Year 3: 10 hours

◆	BMS 9399: Human Structure Function IV	B	4
	MEDICINE 9310: History of Medicine		1
◆	MEDICINE 9330: Clinical Correlations	B	5

Fall Semester Year 3: 24 hours

	MEDICINE 9312: Pathology I		10	Apply for BA graduation with School of Biological Sciences.
--	----------------------------	--	----	---

UMKC Major Map: Bachelor of Arts in Biology/MD (Six-Year Med)

First-Time College Students

Catalog Year: 2016 - 2017

BMS 9311: Medical Neurosciences		9	Graduation date will be spring of year 5. Application is needed now to confirm Year 4 classes.
MEDICINE 9308: Clinical Practice of Medicine I		3	
MEDICINE 9383: Continuing Care Clinic I		0	
MEDICINE 9385: Introduction to Pharmacology (online)		2	

Spring Semester Year 3: 26 hours

BMS 9310: Medical Microbiology		5	ALEKS Math Placement Exam or college credit with a grade of C- or higher in prerequisite is required prior to enrollment in STAT 235 or MATH 210.
MEDICINE 9313: Pathology II		11	
MEDICINE 9383: Continuing Care Clinic I		5	
MEDICINE 9309: Clinical Practice of Medicine II		5	

Fall or Spring Semester Year 4 Campus: 18-19 hours

**Anchor III: Civic and Community Engagement http://www.umkc.edu/core/courses/		3	POL-SCI 210, HISTORY 101 or 102 fulfill the Focus C: Human Actions, Values, and Ethics as well as the Missouri Constitution requirement.
**DISC 300: Community & Civic Engagement (Speech and Writing)		3	
Missouri Constitution course Focus C		3	
Focus A: Arts and Humanities http://www.umkc.edu/core/courses/		3	
STAT 235: Elementary Statistics or MATH 210: Calculus I or MATH 216: Calculus for Biological Sciences	B	3-4	
BIOLOGY 498WI: Critical Analysis of Biological Issues	B	3	

Year 4 Medical Courses

MEDICINE 9401: Year 4 Internal Medicine Docent Rotation		10	Students must pass 2 of the following 3 to take Pharmacology: Pathology I & II, Medical Microbiology, Medical Neurosciences.
MEDICINE 9408: Pharmacology		10	
MEDICINE 9471: Family Medicine		5	
MEDICINE 9472: Behavioral Science		5	
MEDICINE 9482: Patient Physician Society I (Fall)		2	
MEDICINE 9484: Patient Physician Society II (Spring)		2	
MEDICINE 9483: Continuing Care Clinic II		5	
MEDICINE 9485: Ambulatory Care Pharmacology (online)		2	

Year 5 Medical Courses

MEDICINE 9501: Year 5 Internal Medicine Docent Rotation		10	Must pass USMLE Step I exam to take Year 5 coursework
MEDICINE 9503: Pediatric Rotation		10	
MEDICINE 9505: Surgery Rotation		10	Must have 2.8 cumulative GPA to promote to Year 5
MEDICINE 9506: Obstetric & Gynecology Rotation		10	
MEDICINE 9570: Family Medicine Preceptorship		5	Must complete ETS Proficiency Profile (EPP) exam and Major Field Exam in Biology by the end of Year 5
MEDICINE 9571: Psychiatry Rotation		5	
MEDICINE 9583: Continuing Care Clinic III		5	
MEDICINE 9585: Prescribing Special Populations (online)		2	

Year 6 Medical Courses

MEDICINE 95XX: Medical Humanities Elective	5	Medical Humanities Elective can be taken in Year 5 or 6
MEDICINE 9601: Year 6 Internal Medicine Docent Rotation	10	
MEDICINE 9683: Continuing Care Clinic IV	5	Students must Pass USMLE Step II CK by December 31 and USMLE Step II CS exam by November 30 of their last year.
MEDICINE 9685: Safe and Rational Prescribing (online)	2	
MEDICINE 9678: Emergency Medicine	5	
MEDICINE 98XX-99XX: Clinical Elective	5	Must have 2.8 cumulative GPA to promote to Year 6
MEDICINE 98XX-99XX: Clinical Elective	5	
MEDICINE 98XX-99XX: Clinical Elective	5	Clinical Electives must be from three of nine different categories—one must be categorized as “critical care”. Most students have time for additional clinical and/or research electives.

Graduation Requirements Summary

Total Degree Credit Hours	Upper Level (3xx/4xx) Hour Requirement	Minimum Hour / Residency Req.
120 min for undergrad	36	30
Major GPA	UM GPA	Other GPA Requirements
2.8	2.8	Other

Policy

All students completing an undergraduate degree must meet the following conditions in order to graduate and be recommended for graduation or certification:

- 28 hours of course work in Biology are required in addition to M.D. Requirements

The School of Medicine and the School of Biological Sciences reserve 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

Years 1 and 2 Student Affairs Office—School of Medicine 816-235-1344 <http://www.med.umkc.edu>
 School of Biological Sciences—Tammy Welchert 816-235-1385 welchertt@umkc.edu <http://sbs.umkc.edu>
 UMKC Career Services Resources: <http://www.career.umkc.edu/> O*Net OnLine: <http://www.onetonline.org/>