

Four-Year Graduation Plan - Courses and Critical Benchmarks

Prerequisite Plan to Make Application - Courses and Critical Benchmarks

All prerequisites must be completed with C- or better.

Average GPA for students admitted to Doctor of Pharmacy is 3.600.

A's & B's are expected in all prerequisites.



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 apply to the Doctor of Pharmacy program). 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	<b>MATH 110 College Algebra</b>	Foreign Language Requirement	No	Free Elective Hours	No Free Electives
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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
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**Fall Semester Year 1: 13 hours**

	<b>**Anchor I: Reasoning and Values</b> <a href="#">Click for options</a>		3	ALEKS Math Placement Exam is required for students without college credit for a math course.
	<b>**DISC 100: Reasoning and Values</b> (Speech and Writing)		3	
	<b>CHEM 211: General Chemistry I</b> OR <b>CHEM 111: Physical Basis of Chemistry</b>	B B	4 3	Pre-pharmacy math requirement will be met by satisfactory completion of MATH 210 or MATH 216.
	<b>CHEM 211L: Experimental General Chemistry I (Lab)</b>		1	
	<b>MATH 100: Intermediate Algebra</b> OR <b>MATH 110: College Algebra</b> OR <b>MATH 125: Trigonometry</b> OR <b>MATH 120: Pre-Calculus</b> OR <b>*MATH 210: Calculus I</b> OR <b>MATH 216: Biomath</b> OR <b>PHYSICS 210: General Physics I (includes lab)</b>		3 3 2 5 4 4 4	
	Complete 12 term hours minimum toward prerequisites			PHYSICS 210 can be completed if student has MATH 210 satisfactorily completed.

**Spring Semester Year 1: 16 hours**

	<b>**Anchor II: Culture and Diversity</b> <a href="#">Click for options</a>		3	Students completing the prerequisite courses in two years, should sign up for PCAT in Summer &/or early Fall.
	<b>**DISC 200: Culture and Diversity</b> (Speech and Writing)		3	
	<b>MATH 110: College Algebra</b> OR <b>MATH 125: Trigonometry</b> OR <b>MATH 120: Pre-Calculus</b> OR <b>*MATH 210: Calculus I</b> OR <b>MATH 216: Biomath</b> OR <b>PHYSICS 210: General Physics I (includes lab)</b>		3 2 5 4 4 4	Completion of DISC 100/Anchor 1 & Disc 200/Anchor 2 will satisfy the six hours of Writing requirements as well as the Public Speaking requirement.

◆	CHEM 212R: General Chemistry II <b>OR</b> CHEM 211: General Chemistry I	B	4
		B	4
◆	CHEM 212LR: Experimental General Chemistry II (Lab) <b>OR</b> CHEM 211L: Experimental General Chemistry I (Lab)	B	1
		B	1
◆	Complete Anchor I and DISC 100 Complete 12 term hours minimum toward degree Complete 30 total hours toward degree		

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 winter course loads.
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Fall Semester Year 2: 14 hours

	CHEM 321: Organic Chemistry I <b>OR</b> CHEM 212R: General Chemistry II		3 4	<b>NOTE for Unit: Anchor III and DISC 300 not required in completing prerequisites</b>
	CHEM 321L: Organic Chemistry Laboratory I <b>OR</b> CHEM 212RL: Experimental General Chemistry II (Lab)		1 1	
	MATH 125: Trigonometry <b>OR</b> MATH 120: Pre-Calculus <b>OR</b> *MATH 210: Calculus I <b>OR</b> MATH 216: Biomath <b>OR</b> PHYSICS 210: General Physics I (includes lab)		2 4 4 4 4	Labs that are not required: BIOLOGY 108L BIOLOGY 109L  It is normal to take BIOLOGY 109 before BIOLOGY 108.
◆	BIOLOGY 102: Biology And Living <b>OR</b> BIOLOGY 108: General Biology I <b>OR</b> BIOLOGY 109: General Biology II	B B B	3 3 3	Other COMM-ST courses: COMM-ST 140 COMM-ST 312 COMM-ST 343
	COMM-ST 110: Fundamentals Of Effective Speaking & Listening		3	
◆	Complete 12 term hours minimum toward graduation			






Spring Semester Year 2: 14 hours

◆	CHEM 322R: Organic Chemistry II <b>OR</b> CHEM 321: Organic Chemistry I	B B	3 3	<b>RooWriter Assessment</b> not required for prerequisites.
◆	CHEM 322L: Organic Chemistry Laboratory II <b>OR</b> CHEM 321L: Organic Chemistry Laboratory I	B B	1 1	Students completing the prerequisite courses in three years, should sign up for PCAT in Summer &/or early Fall.
◆	BIOL 108: General Biology I <b>OR</b> BIOL 109: General Biology II	B B	3 3	
	*MATH 210: Calculus I <b>OR</b> MATH 216: Biomath <b>OR</b> PHYSICS 210: General Physics I (includes lab)		4 4 4	
	HISTORY 101: U.S. History to 1877 <b>OR</b> HISTORY 102: U.S. History since 1877 <b>OR</b> POL-SCI 210: American Government		3 3 3	
◆	Complete Anchor II and DISC 200 Complete 12 term hours minimum toward degree Complete 60 total hours toward degree			




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

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Fall Semester Year 3: 12 hours

	CHEM 322R: Organic Chemistry II	B	3	Additional courses that are good for pre-pharmacy students to have: COMM-ST 140, COMM-ST 312, COMM-ST 343, PSYCH 210, SOCIOL 101, PHILOS 210, PHILOS 221, PHILOS 222, ECON 201, STAT 235, LS-PHYS 117.
	CHEM 322L: Organic Chemistry Laboratory II	B	1	
	BIOL 108: General Biology I <b>OR</b> BIOL 109: General Biology II <b>OR</b> *BIOL 202: Cell Biology	B B B	3 3 3	
	LS-ANATO 118: Introductory Anatomy	B	3	
	LS-ANATO 118L: Introductory Anatomy Laboratory	B	2	

Spring Semester Year 3: 12 hours

	LS-MCRB 121: Human Biology III (Microbiology)	B	3	LS-MCRB 313/313L will meet the Microbiology requirement, but it is higher level.
	LS-MCRB 121L: Human Biology III (Microbiology) Lab	B	1	
	*BIOL 202: Cell Biology	B	3	There are two Medical Terminology classes taught at UMKC, either one will satisfy the pre-pharmacy requirement.
	PHYSICS 210: General Physics I (Includes lab)		4	
	PHAR 7125: Medical Terminology <b>OR</b> NURSE 125: Medical Terminology		1 1	

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

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Pre-pharm students should be working on a Bachelor's Degree in chosen program during the fourth year.

Graduation Requirements Summary

Total Hours (120 minimum)	Total Hours at UMKC (30 hours min)	Major GPA	UMKC GPA
60	n/a	2.75	2.5

Policy

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.

## Program Description

The pre-pharmacy curriculum allows students to complete all prerequisite courses needed to apply to the Doctor of Pharmacy (Pharm.D.) program.

Students may complete the requirements in two years, three years, or even earn a Bachelor's degree in a particular field at UMKC while completing the prerequisites.

## Admission Requirements

Minimum cumulative GPA of 2.75 and minimum science/math GPA of 2.5 is required to apply. Average GPA of those accepted is 3.6 for both. Students must take the Pharmacy College Admission Test (PCAT) before or during the application year. Pharmacy experience is strongly encouraged, although not required.

## Career Opportunities

The Doctor of Pharmacy degrees allows students to sit for licensure exams to be a practicing pharmacist. While there are hundreds of directions to go with the Pharm.D., the most common practices are Community-Retail, Independence-Retail, Hospital, Military, & Academia. Pharmacists who wish to specialize in an area of health care, will complete a residency or fellowship upon graduation, for an additional year of paid learning experience.

UMKC Career Services Resources: <http://www.career.umkc.edu/?q=node/87>

O\*Net OnLine: <http://www.onetonline.org/find/>

## Advising Contact Information

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