



Major Map: Pre-Pharmacy

Catalog year: 2013 - 2014

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 admission 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 of checking prerequisites to any courses. Critical courses and benchmark indicate academic requirements for each term of enrollment.

First Mathematics: College Algebra (Math 100) Foreign Language Requirement: No Free Elective Hours:

Critical Course or Benchmark	Course Subject, Number, and Title and Academic Plan Benchmarks	Hours	Grade	Notes
◆	Bold = UMKC General Education Core Requirement *Prerequisite May Be Required **Co-Requisite Or Prerequisite Enrollment Required			
Fall Semester Year 1: 13 hours				
	**Discourse I: DISC 100 - Reasoning and Values (Speech and Writing)	3		Math Entrance Exam required prior to enrollment in MATH 110, 120 & 210/216.
	**Anchor I: Reasoning and Values	3		
◆	CHEM 211: General Chemistry I OR CHEM 111: Physical Basis of Chemistry	4 or 3	B B	Pre-pharmacy math requirement will be met by satisfactory completion of Math 210 or Math 216.
	CHEM 211L: Experimental General Chemistry I (Lab)	1		
	MATH 100: Intermediate Algebra OR MATH 110: College Algebra OR MATH 125: Trigonometry OR MATH 120: Pre-Calculus OR *MATH 210: Calculus I OR MATH 216: Biomath OR PHYSICS 210: General Physics I (includes lab)	3 3 2 5 4 4		Math 120 (5 hours) is Math 110 (3 hrs.) & Math 125 (2 hrs.), in one semester.
◆	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				
	**Anchor II: Culture and Diversity - Click for Options	3		Students completing the prerequisite courses in two years, should sign up for PCAT in Summer &/or early Fall.
	**Discourse II: DISC 200 - Culture and Diversity (Speech and Writing)	3		
	MATH 110: College Algebra OR MATH 125: Trigonometry OR MATH 120: Pre-Calculus OR *MATH 210: Calculus I OR MATH 216: Biomath PHYSICS 210: General Physics I (includes lab)	3 2 5 4 4		
◆	CHEM 212R: General Chemistry II OR CHEM 211: General Chemistry I	4 4	B B	
◆	CHEM 212LR: Experimental General Chemistry II (Lab) OR CHEM 211L: Experimental General Chemistry I (Lab)	1 1	B B	
◆	Complete Anchor I and Discourse I Complete 12 term hours minimum toward degree Complete 30 total hours toward degree			



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Summer Semester Year 1				
				May use summer semester ensure completion of 30 hours per academic year or to lighten fall and winter course loads.
Fall Semester Year 2: 14 hours				
	CHEM 321: Organic Chemistry I OR CHEM 212R: General Chemistry II	3 4		<i>NOTE for Unit:: Anchor III and Discourse III Not Required in completing prerequisites.</i>
	CHEM 321L: Organic Chemistry Laboratory I OR CHEM 212RL: Experimental General Chemistry II (Lab)	1 1		
	MATH 125: Trigonometry OR MATH 210: Calculus I OR MATH 216: Biomath OR PHYSICS 210: General Physics I (includes lab)	2 4 4		Labs that are not required: Biol 108L Biol 109L
◆	BIOL 102: Biology And Living OR BIOL 108: General Biology I OR BIOL 109: General Biology II	3 3 3	B B B	It is usual to take Biol 109 before Biol 108.
	COMM-ST 110: Fundamentals Of Effective Speaking & Listening	3		Other Comm-St courses:
◆	Complete 12 term hours minimum toward graduation			Comm-St 140 Comm-St 312 Comm-St 343
Spring Semester Year 2: 14 hours				
◆	CHEM 322R: Organic Chemistry II OR CHEM 321: Organic Chemistry I	3 3	B B	Roo Writer Assessment not required for prerequisites.
◆	CHEM 322L: Organic Chemistry Laboratory II OR CHEM 321L: Organic Chemistry Laboratory I	1 1	B B	Students completing the prerequisite courses in three years, should sign up for PCAT in Summer &/or early Fall.
◆	BIOL 108: General Biology I OR BIOL 109: General Biology II	3 3	B B	
	MATH 210: Calculus I OR MATH 216: Biomath OR PHYSICS 210: General Physics I (includes lab)	4 4		
	HIST 1100: U.S. History to 1877 OR HIST 1101: U.S. History since 1877 OR POL-SCI 210: American Government	3 3 3		
◆	Complete Anchor II and Discourse II Complete 12 term hours minimum toward degree Complete 60 total hours toward degree			
Summer Semester Year 2: ___ hours				
Fall Semester Year 3: 12 hours				
◆	CHEM 322R: Organic Chemistry II	3	B	Additional courses that are good for pre-pharmacy students to have: Comm-St 140, Comm-St 312, Comm-St 343, Psych 210, Soc 101, Phil 210, Phil 221, Phil 222, Econ 201, Stats 235, LS-Phys 117.
◆	CHEM 322L: Organic Chemistry Laboratory II	1	B	
◆	BIOL 108: General Biology I OR BIOL 109: General Biology II OR *BIOL 202: Cell Biology	3 3 3	B B B	
◆	LS-ANATO 118: Introductory Anatomy	3	B	
◆	LS-ANATO 118L: Introductory Anatomy Laboratory	2	B	



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Spring Semester Year 3: ___ hours				
◆	LS-MCRB 121: Human Biology III (Microbiology)	3	B	LS-MCRB 313/313L will meet the Microbiology requirement, but it is higher level.
◆	LS-MCRB 121L: Human Biology III (Microbiology) Lab	1	B	
◆	*BIOL 202: Cell Biology	3	B	
	PHYSICS 210: General Physics I (Includes lab)	4		There are two Medical Terminology classes taught at UMKC, either one will satisfy the pre-pharmacy requirement.
	PHAR 7125: Medical Terminology OR	1		
	NURSE 125: Medical Terminology			
Summer Semester Year 3: ___ hours				
Fall Semester Year 4: ___ hours				
				N/a for Pre-pharmacy. Students in pre-pharmacy in fourth year, should be working on a Bachelor's Degree in chosen program.
Spring Semester Year 4: ___ hours				

Non-course requirements

Met

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.

Doctor of Pharmacy Requirements summary:

Total Hours (60 minimum)	Totals Hrs at UMKC (n/a)	Major GPA (2.75 Cumulative Minimum)	Science/Math GPA (2.5 Minimum)

- [list of requirements as stated in the catalog pertaining to minimum GPA, capstone coursework, additional licensure exams, etc.]



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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.

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