



Required Pre-Pharmacy Courses

Course Transfer Sheet

Mineral Area Community College

The Doctor of Pharmacy (Pharm.D.) program requires satisfactory completion (grade of C- or higher) of all specific pre-pharmacy college course work before entry into the first semester of the program (UMKC only offers fall entry). Online courses may count.

Below are the courses that have been approved to transfer from [Mineral Area Community College](#) towards pre-pharmacy requirements. Admission to the Pharm.D. program is competitive, with college grades, Pharmacy College Admission Test (PCAT) scores, pharmacy experience, communication skills, and a formal interview being key determinants. A degree is not required for admission.

Note: Courses listed below meet the UMKC pre-pharmacy course requirements for the Pharm.D. program. These courses do not necessarily reflect what other programs at UMKC consider towards a Bachelor's degree.

REQUIRED COURSES

English Composition I
English Composition II
Communication Studies
U.S. History or American Government

MINERAL AREA CC COURSES

ENG 1330 (MOTR ENGL 100)
ENG 1340 (MOTR ENGL 200)
ENG 1440 or 1670 (MOTR COMM 100 or 110)
HIS 1230 or HIS 1240 or POS 1180
(MOTR HIST 101 or 102 or MOTR POSC 101)

Calculus w/Analytical Geometry
Statistics (Required for Fall 2022 Entry & Beyond)
General Physics w/ lab

MATH 1650
MATH 1260
PHS 1420 (MOTR PHYS 150L)

General Chemistry I w/ lab
General Chemistry II w/lab
General Biology I or Botany
General Biology II or Zoology

PHS 1350 (MOTR CHEM 150L)
PHS 1390
BIO 2112
BIO 2122

BIOL 2430 will suffice as 2nd Gen Bio after BIOL 1114 or 1124

The courses below must be taken within five years prior to the fall start of the Pharm.D. program:

Organic Chemistry I w/lab	PHS 2350
Organic Chemistry II w/lab	PHS 2360
Cell Biology	Not Offered
Microbiology w/lab	BIO 2700
Medical Terminology	HLT 2350
Human Anatomy w/lab	BIO 2600

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- Please review your school's test credit policy regarding AP, IB, CLEP, etc.
 - Transfer sheets for other local schools: <https://pharmacy.umkc.edu/admissions/transfer-sheets.html>.

Additional Notes for UMKC Pre-Pharmacy Prerequisite Courses

Please contact staff from the Pharmacy Office of Student Affairs (POSA) with any questions you have.

-Online courses may count, and the POSA staff know of several online options for courses. Grades of P, Cr &/or S (Pass, Credit &/or Satisfactory) from the Spring & Summer 2020 semesters will suffice.

-If you took a marked course that is older than five years, and you believe your knowledge of the course is current based on courses taken since then within five years of admission or through your current job responsibilities, you can petition the old course to count. Contact POSA to inquire about the process and documentation needed.

-Courses that may transfer from foreign institutions: Physics with lab, Calculus, Statistics, General Chemistry 1 & 2 with labs, Organic Chemistry 1 with lab, or General Biology 1 & 2. All remaining courses must be completed from a regionally accredited college or university inside of the USA.

English Composition 1 & 2: Six hours are required. If a student takes an advanced composition course, or tests into Eng Comp 2, the student can take an additional writing course where 5,000 words or 20 written pages (usually noted as a 'Writing Intensive' course). Eng Comp 1 may be completed by earning a minimum required score on the AP Eng Language & Composition (minimum score requirements vary by institution). AP Eng Literature & Composition will not count.

Communication Studies can be complete by any course in the subject. Interpersonal communication, public speaking or small group dynamics are great examples.

U.S. Constitution can be complete by U.S. History 1 or 2, American Government, or a Bachelor's degree from inside of the USA.

Physics with lab should be a college-level, trig based (or higher) Physics course with lab.

Calculus with Analytical Geometry can be complete by Calculus courses that require trigonometry as a prerequisite. Business Calculus will not count, unless it is followed by an additional Business Calculus 2 course.

Statistics is required for students entering the Pharm.D. program in Fall 2022 and later and may be complete with an introduction to statistics or biostatistics course. If your major offers a statistics course, please send syllabus to POSA for review.

Organic Chemistry 1 & 2 with labs can be complete by a two-sequence organic chemistry with labs structure. Some schools offer a one 2.0 credit hour lab, while others offer two 1.0 credit hour labs. Either is fine.

General Biology 1 & 2 may be complete by any two of the following courses: general biology 1, general biology 2, zoology, botany, genetics, or human physiology. Labs are not required. Essentials of Biology or Biology for Non-majors do not count.

Cell Biology may be complete by a sophomore-level cell biology course that has general biology and general chemistry as a prerequisite. A lab is not required.

Microbiology with lab may be complete by a sophomore-level Microbiology course for future health professionals. Environmental Microbiology lecture & lab will not count.

Human Anatomy with lab may be complete by a human anatomy with lab course, or a five-hour human anatomy & physiology with lab course, or by a two-sequenced human anatomy & physiology 1 & 2 with labs structure.

Medical Terminology should be 1.0 credit hour or more. UMKC offers an online 1.0 hour course each semester.

Biochemistry 1 & 2 are not required for entry, and may be complete by two semesters of general biochemistry 1 & 2. Students who take introduction to biochemistry or biochemistry 1 and are looking for Biochem 2, the POSA knows of online options. Labs are not required. A 4.0 credit Biochemistry with lab course will not count. Students who complete an approved biochemistry 1 & 2 sequence may not have to take Pharmacy Biochemistry in their first semester of the Pharm.D. curriculum.