



## Required Pre-Pharmacy Courses

### Course Transfer Sheet

### University of Arkansas

The Doctor of Pharmacy (Pharm.D.) faculty requires all specific pre-pharmacy college courses to be complete with a grade of C- or higher before entry into the first semester of the Pharm.D. program.

Below are the courses approved to transfer from the [University of Arkansas](#). Admission to the Pharm.D. program is competitive with college grades, pharmacy knowledge, communication skills, and a formal interview being key determinants. A degree is not required for admission.

Arkansas changed their course numbers beginning Fall 2024. Below are the current numbers. Click [Pre-Fall 2024 Numbering](#) for previous numbers.

*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.*

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#### REQUIRED COURSES

English Composition I  
English Composition II  
Communication Studies  
U.S. Constitution or Bachelor Degree

#### ARKANSAS COURSE (all Honors sections suffice)

ENGL 10103  
ENGL 10203  
COMM 10203 or 23003 or 23203 or 23403  
HIST 20003 or HIST 20103 or PLSC 20003

Calculus w/Analytical Geometry  
Statistics  
General Physics w/ lab  
General Chemistry I w/ lab  
General Chemistry II w/lab  
General Biology I or Botany  
General Biology II or Zoology

MATH 15104 or MATH 22003 or MATH 24004  
STAT 28233 or STAT 30043 or MATH 21003  
PHYS 20103/20101  
CHEM 12073/12071  
CHEM 12283/12281  
BIOL 10104 or BIOL 10303  
BIOL 10503 or BIOL 23373

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

Organic Chemistry I w/lab  
Organic Chemistry II w/lab  
Human Physiology or Cell Biology  
Microbiology w/lab  
Human Anatomy  
Medical Terminology

CHEM 36053/36051  
CHEM 36203/36201  
BIOL 24103 or BIOL 25473  
BIOL 20003/20001  
BIOL 24003  
PBHL 26603

#### Optional – Successful completion of Biochemistry I & II may transfer into the Pharm.D. Curriculum

Pharmacy Biochemistry  
CHEM 481H3 & 484H3 or  
CHEM 58103 & 58403

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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 questions.

-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, 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 Interpersonal communication, public speaking or small group dynamics are great examples.

U.S. Constitution complete by U.S. History 1 or 2, American Government, or a Bachelor's degree from U.S. school.

Physics with lab should be a college-level, trig based Physics course with lab.

Calculus can be complete by Business Calculus or Calculus w/ Analytical Geometry.

Statistics May be complete with an introduction to statistics or biostatistics course.

Organic Chemistry 1 & 2 with labs can be complete by six hours of Organic Chemistry lecture and two hours of lab. Some schools offer 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, cell biology, or human physiology. Labs are not required. Essentials of Biology or Biology for Non-majors do not count.

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

Medical Terminology only one hour required. UMKC offers an online 1.0 hour course each semester.

\*Human Anatomy may be complete by a human anatomy lecture. Vertebrate or comparative anatomy will not count.

\*Human Physiology or Cell Biology applicants entering the Pharm.D. program in 2025 or 2026 may take either Human Physiology (preferred) or a sophomore level Cell Biology course. Labs not required. Students entering 2027 or after must take Human Physiology.

\*Anatomy & Physiology a six-hour A&P sequence will complete both Anatomy & Physiology requirements.

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.