



# Required Pre-Pharmacy Courses

## Course Transfer Sheet

### Moberly 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 will count.

Below are the courses that have been approved to transfer from [Moberly 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.*

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#### REQUIRED COURSES

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

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

#### 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  
Cell Biology  
Microbiology w/lab  
Medical Terminology  
Human Anatomy w/lab

#### MOBERLY AREA CC COURSES

LAL 101 (MOTR ENGL 100)  
LAL 102 (MOTR ENGL 200)  
SPK 101 or SPK 120 (MOTR COMM 100 or 110)  
HST 105 or HST 106 or PSC 103 or PSC 105  
(MOTR HIST 101 or 102 or MOTR POSC 101)

MTH 201  
MTH 160  
PHY 181 (MOTR PHYS 150L)

PHY 121 (MOTR CHEM 150L)  
PHY 122  
BIO 151 or BIO 155  
BIO 150 or BIO 160

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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).

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 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 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.