The Doctor of Pharmacy (Pharm.D.) program has specific prerequisite college coursework that is required before starting the Pharm.D. program. All courses listed must be complete before the Fall semester of entry with a grade of C or better. Pharm.D. admission is competitive, with college grades, PCAT scores, pharmacy experience and communication skills being key determinants. A degree is not required for admission.

Courses listed here meet the School of Pharmacy prerequisites for the Pharm.D. program. Course equivalencies do not necessarily reflect what other programs at UMKC consider to be equivalent courses towards a Bachelor's degree.

**Required Prerequisites**

<table>
<thead>
<tr>
<th>UMKC</th>
<th>UMKC Hours</th>
<th>MO U of Science &amp; Tech Equivalent</th>
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</thead>
<tbody>
<tr>
<td>English Composition 1</td>
<td>3</td>
<td>ENGLISH 1120</td>
</tr>
<tr>
<td>English Composition 2</td>
<td>3</td>
<td>ENGLISH 1160</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>3</td>
<td>SP&amp;M S 1185 or 3250</td>
</tr>
<tr>
<td>U.S. History or American Government</td>
<td>3</td>
<td>HISTORY 1300 or 1310 or POL SCI 1200</td>
</tr>
</tbody>
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Calculus w/ Analytical Geometry 4 MATH 1208
Physics w/ lab 4 PHYSICS 1111/1119
General Chemistry I w/ lab 5 CHEM 1310/1319
General Chemistry II w/ lab 5 CHEM 1320

Note: CHEM 1351 fulfills the General Chemistry 1310/1319/1320 requirement.

General Biology 1 or Botany 3 BIO SCI 1213 or 2383
General Biology 2 or Zoology 3 BIO SCI 1223 or 2353

*BIO SCI 2223 will suffice as 2nd Gen Bio course, after any Gen Bio course.

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

Organic Chemistry I w/ lab 4 CHEM 2210/2219
Organic Chemistry II w/ lab 4 CHEM 2220/2229
Cell Biology 3 BIO SCI 2213
Microbiology w/ lab 4 BIO SCI 3313/3319
Human Anatomy w/ lab 5 BIO SCI 3333/3339 & 3343/3349*

*Two semesters of A&P is equivalent to one semester of Human Anatomy.
Medical Terminology 1 Not offered

Please click here to see how UMKC views test credit: [http://www.umkc.edu/registrar/transfer-credit/default.asp](http://www.umkc.edu/registrar/transfer-credit/default.asp).