

UM NEWNAN LSA ACADEMIC ADVISING CENTER: Checklist of common PRE-PHARMACY Course Requirements v. 2025

Name: _____ Date: _____ Advisor: _____

General info: [American Association of Colleges of Pharmacy Future Students](#)

Pharmacy College Admission Test (PCAT): The PCAT has been retired as of January 2024. You will need to review the admissions requirements for your target schools to determine if there is a different exam such as the [GRE or MCAT](#) that may be recommended/considered for admission.

[View requirements of Pharmacy programs here.](#)

Applications: You can apply to most---though not all---PharmD programs through the centralized application service, [PharmCAS](#). Check pharm school websites for school-specific application information and deadlines.

COURSES COMMONLY REQUIRED FOR ADMISSION TO DOCTOR OF PHARMACY (PHARM D) PROGRAMS

CHEMISTRY: Most PharmD programs require 2 lectures and 2 labs of general/inorganic chemistry, 2 lectures and 2 labs of organic chemistry, and 1 lecture of biochemistry. LSA students typically complete this by taking:

<p>General/Inorganic</p> <p><input type="checkbox"/> CHEM 130 and CHEM 125/126</p> <p><input type="checkbox"/> CHEM 230 or CHEM 260</p> <p>Organic</p> <p><input type="checkbox"/> CHEM 210 and CHEM 211</p> <p><input type="checkbox"/> CHEM 215 and CHEM 216</p> <p>Biochemistry</p> <p><input type="checkbox"/> MCDB 310 or BIOLCHEM 415 or CHEM 351</p>	<ul style="list-style-type: none"> • AP credit for CHEM 130/125/126 is usually accepted, but check with specific schools. • If you placed into Chem 210/211 but do not have AP credit for Chem 130/125/126, ask pre-health advising for a Chemistry Exemption Letter. • Consider CHEM 245/246/247 if you need more gen chem credit but don't want to take CHEM 130/125/126.
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BIOLOGY: Most PharmD programs require 2 lectures and 1 lab of intro biology. They typically also require additional advanced bio courses; however, different schools require different advanced bio courses. Always check websites for school-specific requirements. See below for some of the common advanced biology courses.

<p><input type="checkbox"/> NO AP/IB Credit: Take BIOLOGY 171, 172 or 174♦, & 173 PLUS another Biology lecture and lab* course.</p> <p><input type="checkbox"/> With AP/IB Credit for BIOLOGY 195: Take BIOLOGY 173 PLUS 2 Biology lectures & a 2nd Biology lab*</p> <p><input type="checkbox"/> With BIOLOGY 191 transfer credit: Take BIOLOGY 192 (fall only), BIOLOGY 173 PLUS another Biology lecture and lab* course.</p>	<p>♦ BIO 172 and BIO 174 cover the same content, and either is sufficient to meet pre-reqs</p>
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PHYSICS: Most PharmD programs require 2 lectures and 2 labs of physics.

<p><input type="checkbox"/> PHYSICS 1: Any one of Physics [125/127, 140/141, 160/161 or PHYSICS/BIOPHYS 150/151]</p> <p><input type="checkbox"/> PHYSICS 2: Any one of Physics [126/128, 240/241, 260/261, or PHYSICS/BIOPHYS 250/251]</p>	<ul style="list-style-type: none"> • AP credit is commonly accepted in place of one or both semesters of physics, but check with schools to be sure. • PHYSICS 290 is not a substitution for PHYSICS II. PHYSICS 290 is a one-semester course taught as an overview of physics with medicine and biology applications. This course is best suited for students who are looking to take an additional physics course, not students needing to meet pre-requisite requirements for Physics I and Physics II with labs.
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MICROBIOLOGY: Most pharmacy schools require one semester of microbiology. MICRBIOL 350, the Microbiology lab, is usually only offered Winter term. Some programs may not allow microbiology to fulfill additional biology requirements as mentioned above.

NOTE: UM's PharmD program requires MICRBIOL 405 & 350 lab, but other schools may accept BIOLOGY 207.

- ☐ BIOL 207
- or
- ☐ MICRBOL 405 and MICRBIOL 350 (Lab - winter only)

ANATOMY & PHYSIOLOGY: Both **Human** Anatomy and **Human** Physiology are commonly required. These are taught as separate courses at UM. Students who take combined Anatomy and Physiology at another school should take the entire sequence (usually this is 2 semesters).

<input type="checkbox"/> Human Anatomy: ANATOMY 403 <input type="checkbox"/> Human Physiology: PHYSIOL 201 or PHYSIOL 502 and PHYSIOL 404 (lab)*	<ul style="list-style-type: none"> Your anatomy class must include muscles, skeleton, and organs. MOVESCI 230 does not include organs. PHYSIOL 201 is likely to be required. Some schools may prefer PHYSIOL 502 over PHYSIOL 201. Students who have already taken BIOLOGY 225 should check target schools before taking another Physiology course. UM's PharmD program requires Human Physiology. *Some programs may require a Physiology lab course (PHYSIOL 404), but not all.
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GENETICS: Genetics is required by UM's PharmD Program. While not required by all programs, it is commonly recommended.

<input type="checkbox"/> BIOLOGY 305	<ul style="list-style-type: none"> Acceptable courses must cover the science of genetics. Evolutionary and population genetics courses are not acceptable.
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MATH: Most PharmD programs require 1 calculus course and 1 statistics course. If you plan to take other advanced math courses, check with schools to see if they will accept them in place of calc.

<input type="checkbox"/> MATH 115 or MATH 116 or other calc <input type="checkbox"/> STATS 250 or STATS 280	<ul style="list-style-type: none"> AP credit typically is <u>not</u> accepted in place of calc or stats.
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ENGLISH: Most PharmD programs require 1-2 writing-intensive courses. Some schools require one of those courses to be in an English or Literature department.

<input type="checkbox"/> Writing course #1 <input type="checkbox"/> Writing course #2	<ul style="list-style-type: none"> AP credit typically is <u>not</u> accepted in place of English composition courses.
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HUMANITIES OR FOREIGN LANGUAGE: Most PharmD programs require courses in the humanities or a foreign language. Specific requirements vary across schools. Check their websites.

<input type="checkbox"/> Humanities/language course #1 <input type="checkbox"/> Humanities/language course #2	<ul style="list-style-type: none"> AP credit typically is <u>not</u> accepted in place of humanities or language coursework.
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SOCIAL SCIENCES AND PUBLIC SPEAKING: Many PharmD programs require courses in the social sciences, as well as Public Speaking or Communication. Requirements vary across schools. Check their websites.

<input type="checkbox"/> Social sciences course #1 <input type="checkbox"/> Social sciences course #2 <input type="checkbox"/> Public Speaking/Communication	<ul style="list-style-type: none"> AP credit typically is <u>not</u> accepted in place of social sciences coursework. Some schools specifically require courses in Psychology, Sociology, Economics, History, Foreign Cultures, and/or US Cultural Diversity.
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IMPORTANT: Some schools may require additional courses not listed above. It is important to check schools' websites for their specific prereqs. If the website is unclear, call their Admissions Office. To start your program search or compare programs, use the [PharmCAS program directory](#).