



SMU PRE-HEALTH PROFESSIONS



Suggested Pre-Pharmacy Plan

Note: Some science courses may be completed in summer terms.

Individual program requirements may change at any time, and this plan may not reflect the most current information. It is the student's responsibility to review, understand, follow, and remain up-to-date with the policies, guidelines, and requirements (including pre-requisite coursework) of each individual pharmacy program and the application service (PharmCAS).

This plan could vary depending on the major chosen. Consult your academic advisor and check individual degree plans for suggested sequencing of courses. Grades of "C" or better are required to meet specific science (and math) pre-requisites for admission to pharmacy school. Consult with your advisor before advancing to the next level course. Combined science and math pre-requisites include courses coded as biology, chemistry, physics, and also include math and statistics. Subjects appearing in italics will appear as content on the P-CAT (Pharmacy College Admission Test).

1st Year Fall

1st Year Spring

<i>CHEM</i>	1303	<i>General Chemistry</i>		<i>CHEM</i>	1304	<i>General Chemistry</i>
<i>CHEM</i>	1113	<i>General Chemistry Lab</i>		<i>CHEM</i>	1114	<i>General Chemistry Lab</i>
<i>BIOL</i>	1301	<i>Introductory Biology</i>		<i>BIOL</i>	1302	<i>Introductory Biology</i>
<i>BIOL</i>	1101	<i>Introductory Biology Lab</i>		<i>BIOL</i>	1102	<i>Introductory Biology Lab</i>
<i>DISC</i>	1312	<i>Discernment and Discourse</i> (UC 2016)		<i>DISC</i>	1313	<i>Discernment and Discourse</i> (UC 2016)
<i>WRTR</i>	1312	<i>Introduction to Academic Writing</i> (CC 2020)		<i>WRTR</i>	1313	<i>Writing and Critical Reasoning</i> (CC 2020)
<i>MATH</i>	1337	<i>Calculus</i>		<i>STAT</i>	2331	<i>Statistics</i>

2nd Year Fall

2nd Year Spring

<i>BIOL</i>	3304	<i>Genetics</i>		<i>BIOL</i>	3350	<i>Cell Biology</i>
<i>CHEM</i>	3371	<i>Organic Chemistry</i>		<i>CHEM</i>	3372	<i>Organic Chemistry</i>
<i>CHEM</i>	3117	<i>Organic Chemistry Lab</i>		<i>CHEM</i>	3118	<i>Organic Chemistry Lab</i>
<i>APSM/BIOL</i>	2441	<i>Anatomy & Physiology I</i> (Non-Biology majors)		<i>APSM/BIOL</i>	2442	<i>Anatomy & Physiology II</i> (Non-Biology majors)
<i>PHYS</i>	1307	<i>General Physics I</i>				
<i>PHYS</i>	1105	<i>General Physics I Lab</i>				

3rd Year Fall

3rd Year Spring

<i>BIOL</i>	4310	<i>Biochemistry</i>	PCAT 			
<i>BIOL</i>	3370	<i>Microbiology</i>				
<i>BIOL</i>	3170	<i>Microbiology Lab</i>				
<i>BIOL</i>	4306	<i>Human Anatomy with Physiology</i> (Biology majors)		<i>BIOL</i>	4364	<i>Integrated Human Physiology with Endocrinology</i> (Biology majors)
<i>BIOL</i>	3106	<i>Physiology Lab</i> (Biology majors)		<i>BIOL</i>	4164	<i>Functional Anatomy & Histology Lab</i> (Biology majors)

Students can choose any major; however, courses offered in Biology, Chemistry, or Biochemistry majors provide the best preparation for pharmacy school and the PCAT (Pharmacy College Admission Test). Additional recommended or required courses include: Biochemistry II, Economics (macro or micro), Medical Terminology, Speech/Communication. Medical Terminology is not offered at SMU. **Review program websites to confirm required pre-requisite courses, observation hours, and specific documentation.**

SMU offers two additional courses that are recommended for students pursuing pharmacy: PSYC 4321 (Behavioral Action of Drugs) and CHEM 5398 (Medicinal Chemistry). Review the course catalog for any pre-requisites required for each course.

Pre-calculus (MATH 1304) may be required prior to calculus (MATH 1337). Statistics can be moved to a later semester to better accommodate a student's schedule. Pre-pharmacy students may incorporate study abroad in their college plan, usually before their junior year or during the summer. Meet with your academic or faculty advisor and plan ahead.



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Students may complete PHYS 1303/1105 instead of PHYS 1307/1105. **Physics can be moved to a later semester to better accommodate a student's schedule.** Physics is NOT on the PCAT.

Students pursuing the B.S. in Biological Sciences are required to complete additional coursework, including Biochemistry (BIOL 5310) and Physics II (PHYS 1308) plus lab (PHYS 1106). **Note: MATH 1338 is a prerequisite (or co-requisite) for PHYS 1304.** Consult with a faculty advisor for requirements to complete the degree.

It is the student's responsibility to understand the specific requirements for individual programs. Some pharmacy programs strongly recommend or require observation/shadowing hours. Refer to individual programs for the required (or recommended) number of healthcare-related experiences (HCE) - including observation. Consult with individual programs for specific documentation requirements.

The PCAT is offered at designated times throughout the year. Pre-pharmacy students should review the PCAT testing schedule and plan accordingly. Some students choose to test in the summer of application while others prefer to take the exam in the spring.

Students apply to pharmacy school using a centralized application service, PharmCAS, which opens in July each year. Meet with the Pre-Health Director for more information and visit the websites below to begin preparing for pharmacy school.

Resources:

<https://www.pharmcas.org/application-instructions/verification-and-gpas>

<https://www.pharmcas.org/application-instructions/before-you-apply>

<https://tpc-etesting.com/pcat/>

<https://www.pearsonassessments.com/graduate-admissions/pcat/about.html>

<https://www.pearsonassessments.com/content/dam/school/global/clinical/us/assets/pcat/pcat-cib.pdf>