What does it mean to be Pre-Pharmacy at WWU?

Pre-Pharmacy students are those who identify themselves as such, formally or informally. Western does not offer a “Pre-Pharmacy” major, and there is no formula for getting into pharmacy school. Selection committees evaluate applicants across multiple areas through a holistic review process. Important components include GPA (both cumulative and science/math), letters of recommendation, extracurricular activities, community service, pharmacy awareness, diversity awareness, PCAT scores in some cases, an interview, and background checks (including legal, conduct, and social records).

Pre-Pharmacy Education

Pharmacy schools emphasize the importance of a liberal arts education and do not recruit students from one specific major or discipline. This gives you flexibility in planning your educational program. Use your undergraduate years to explore many academic fields, to develop basic skills and knowledge, to demonstrate expertise and to experience a field of study (major) of your choice. Align with a major in which you both excel and enjoy. While Biology and Chemistry are popular choices, Pre-Pharmacy students have majored in a diverse range of disciplines including Anthropology, Behavioral Neuroscience, Business, Kinesiology, Languages (i.e. Spanish), Literature, and self-designed programs. Some pursue combined majors such as Biology/Anthropology, Biochemistry, and Cellular & Molecular Biology.

Core Courses

Regardless of your major, certain prerequisite courses expected by most schools include:

**CHEMISTRY** (a sequence of eight courses)

**NOTE:** It is imperative that students begin general chemistry as early in their program as possible

- General Chemistry series (includes labs): CHEM 121, 122, 123 [or Honors equivalent]
- Organic Chemistry lecture series: CHEM 351, 352, 353;
  - with two accompanying labs: 354 and either 355 or 356 (depending upon major)
- Biochemistry: CHEM 471, 472

**BIOLOGY**

- General Biology series (includes labs): BIOL 204, 205, 206
- Microbiology (with lab): BIOL 345, 346 or 256 [upper-division preferred]
- Additional courses under advisement

**MATHEMATICS**

- Calculus: MATH 124
- Statistics: MATH 240 [or major equivalent; i.e. BIOL 340 for Biology majors]

**NON-SCIENCE**

- English (2-3 courses): ENG 101, 202, 301, or 302
- Introduction to Psychology: PSY 101
- Introduction to Microeconomics: ECON 206
- Introduction to Moral Issues: PHIL 112 [or logic or ethics: PHIL 102, 202, or 320]
- Fundamentals of Speech: COMM 101
- Interpersonal Communication or Public Speaking: COMM 327 or 331

This document is for preliminary advising purposes only.

Ongoing consultations with the Pre-Healthcare advisors is encouraged for effective holistic preparation.

Keep informed

- WWU students may join the Advisor's Pre-pharmacy Listserv. To join, e-mail Renee.Murray@wwu.edu or Anna.Tognazzini@wwu.edu with the following SUBJECT information: Pre-pharmacy listserv, Last name, First name, WWU student number, and major (if declared).
- Pre-Pharmacy Club: Join this and other WWU Associated Students clubs at www.as.wwu.edu/clubs/.
Notes

ADVANCED PLACEMENT (AP): Check with targeted schools whether they recognize AP as college-earned credit. Not all do. It is better to view any earned credits as qualifying to enroll in upper-division courses rather than as “testing out” of prerequisites.

DECLARING A MAJOR: Departments vary in how to declare majors. Behavioral Neuroscience, Biology, Chemistry, Kinesiology, and others allow students to declare as a “pre-major” while addressing their specified prerequisites. Some majors require a specific GPA across foundational courses. Declare early, even as a “pre-major”, to help shorten your time to degree. While working on any pre-major content, explore many disciplines to keep your options open.

ACCESS TO CLASSES: High volume student demand exists for upper-division courses, especially in the sciences. Many departments grant enrollment priority to students declared in specific majors over those seeking enrollment for professional school purposes. Registration access procedures for impacted courses can change, and departments commonly provide procedural updates through websites, seminars, and email notifications.

REPEATING/DROPPING COURSES: Regardless of Western’s policies, which are provided in the university catalog, https://catalog.wwu.edu/content.php?catoid=13&navoid=2750, these actions are not generally viewed favorably by professional schools. Whereas Western may calculate the most recent repeated course into its GPA, some professional schools will average all grades earned for a course. While an isolated case may be acceptable, it will likely require an explanation on your application. Discuss your options first with a Pre-Healthcare Advisor. Be mindful both dropping and repeating courses can have an impact on eligibility for financial aid, scholarships, and athletic participation as well. Consult advisors in each area that applies to you when making your decision.

SHADOWING: Students should gain shadowing experience with a non-relative pharmacist. This helps one to gain exposure to the profession and generate a professional letter of recommendation.

PCAT: Approximately 2/3 of pharmacy schools require the Pharmacy College Admission Test. Test dates occur in January, July, September, October, and November. Take the exam within the cycle of application, which opens each July (one year before projected matriculation). PCAT information is available at http://www.pcatweb.info/.

Additional Resources

WWU Allied Health Advising: www.wwu.edu/alliedhealth
WWU Pre-health Pinterest: www.pinterest.com/wwuprehealth/
American Association of Colleges of Pharmacy (AACP): www.aacp.org
Pharmacy College Application Services (PharmCAS): www.pharmCAS.org
Explore Health Careers: www.explorehealthcareers.org

Pre-Healthcare Advising Events

Typical programming events offered by Pre-Healthcare Advising include (but are not limited to):

Fall:
Orientation Session: Getting you from WWU to professional school (PRESCRIBE)
Health Professional School & Grad School Info Fair, October 19, 2017
Winter 2018 Pre-Registration Drop-in Advising (in BI 415): Nov 15 (10am-1pm); Nov 16 (3-5pm)

Winter:
Kaplan-sponsored practice PCAT

Spring 2018 Pre-Registration Drop-in Advising (in BI 415): Feb 28 (12-3pm); March 1 (2-4pm)

Spring:
The Healthcare Professional School Application: A session overviewing the process
Fall 2018 Pre-Registration Drop-in Advising (in BI 415): May 16 (12-3pm); May 17 (2-4pm)

This document is for preliminary advising purposes only. Contact Advising for Pre-Healthcare Professions for updates and changes.