

# PRE-PHARMACY

Undergraduate Credit Required	72 hours or Bachelor's degree (recommended)
Entrance Exam	PCAT - Pharmacy College Admission Test
Professional Schooling Required	4 years of professional school; Pharm D. – Doctor of Pharmacy
Professional Schools	Temple University, LECOM, Thomas Jefferson University, University of the Sciences, University of Pittsburgh, Wilkes University, Nesbitt School of Pharmacy, Duquesne University Mylan School of Pharmacy
Professional Organization Websites	aacp.org (American Association of Colleges of Pharmacy)
Major	Students can major in any subject at WCU for Pre-Pharmacy. The most common majors that align with medical school pre-requisites are Pharmaceutical Product Development: Pre-Pharmacy, Biology: Cell and Molecular Biology, Biology: Integrative Concentration, and Chemistry: Chem-Bio.

## REQUIRED AND SUGGESTED ELECTIVES FOR WCU UNDERGRADUATE STUDENTS

The following course recommendations are general requirements for Pharmacy programs. For the specific requirements of your school of choice and whether AP/IB credit is accepted, please refer to that school's admissions website or contact those schools for a list of entrance requirements.

### PHARMACY SCHOOL REQUIREMENTS

Biological Sciences with labs (8 hours)		
BIO 110 General Biology I, BIO 111 General Biology II, BIO 211 Cell Biology, BIO 215 Botany, BIO 217 Zoology		
Course	Term	Grade
Genetics (recommended by some schools)		
Course	Term	Grade
BIO 210		
Microbiology		
Course	Term	Grade
BIO 214		
General Chemistry with lab		
Course	Term	Grade
CHE 103 & CRL 103		
CHE 104 & CRL 104		
Organic Chemistry with lab		
Course	Term	Grade
CHE 231 & CRL 231		
CHE 232 & CRL 232		
Biochemistry (recommended)		
Course	Term	Grade
CHE 476		
Anatomy and Physiology		
Course	Term	Grade
BIO 259		
BIO 269		

English Composition (1 courses)		
Course	Term	Grade
Calculus		
Course	Term	Grade
MAT 145/161		
Physics with lab (2 courses)		
General Physics PHY 130 AND 140 or Physics 170 AND 180		
Course	Term	Grade
PHY 130 or 170		
PHY 140 or 180		
Social Sciences* (9 hours)		
Humanities** (9 hours)		

#### \* Social Sciences

Psychology, Sociology, Anthropology, Political Science, Economics, Geography, History.

#### \*\*Humanities

Languages, Literature, Philosophy, Religion, Arts

### Sample Course Plan of Pre-Pharmacy Requirements

#### Semester 1

CHE 103  
CRL 103  
BIO 110  
WRT 120  
Social Sciences

#### Semester 2

CHE 104  
CRL 104  
BIO 111  
MAT 145  
Social Sciences

#### Semester 3

CHE 231  
CRL 231  
PHY 130  
Humanities  
Social Sciences

#### Semester 4

CHE 232  
CRL 232  
PHY 140  
Humanities  
Humanities

#### Semester 5

General/Major Electives

#### Semester 6

General/Major Electives

#### Semester 7

General/Major Electives

#### Semester 8

General/Major Electives

### Suggested courses for the PCAT Preparation

BIO 110	WRT 120 and 2XX
BIO 111	MAT 121
BIO 210	MAT 145
BIO 211	CHE 103 and 104 with labs
BIO 215	CHE 231 and 232 with labs
BIO 217	CHE 476
BIO 259 and 269	

**Note: Physics is not tested on the PCAT. Science courses above and beyond the courses listed will be of benefit for PCAT performance. For more information, visit [pcatweb.info](http://pcatweb.info)**

### BEYOND ACADEMICS

Pre-Pharmacy students are encouraged to participate in activities and experiences such as leadership roles, volunteer work, research, and shadowing, which will help them prepare for Pharmacy school and the job as a pharmacist. Activities beyond the classroom play a significant role in a student's application to a professional school program. Such experiences demonstrate a commitment and knowledge about the profession. In particular, shadowing pharmacy professionals and involvement with the Pre-Med Club or Pharmaceutical Development Club will help students learn more about the profession of pharmacy.

### APPLICATION AND ADMISSION

This standardized application permits a student to apply to multiple pharmacy schools and colleges with one application and distribution of transcripts. The web-based application will include the applicant's personal statement, course summary, and listing of extracurricular activities. PharmCAS.org has information on which schools participate in PharmCAS.

### ENTRANCE EXAM

The Pharmacy College Admission Test (PCAT) is required. The PCAT is a specialized exam that helps identify qualified pharmacy school applicants by measuring their general academic ability and scientific knowledge determined necessary for a pharmacy education. Registration information is available at the PCAT web site: [pcatweb.info](http://pcatweb.info). Check with the Pre-Medicine advisor or Pharmaceutical Product Development advisor for information on the best time to take the exam.

### ADDITIONAL APPLICATION INFORMATION

Applications to Pharmacy school require letters of recommendation and a supplemental (secondary) application may also be required. It is suggested that you get one letter of recommendation from a licensed pharmacist.



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WCU does not discriminate based upon any protected status.  
Please see [www.wcupa.edu/admin/social.equity/](http://www.wcupa.edu/admin/social.equity/)

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