

# Pre-Pharmacy Student

## Course Reference

### Required Pre-Pharmacy Course Work

All prerequisite courses must be taken for a grade (not Pass/No Pass). The courses required for admission to Oregon State University and Pacific University are listed below but apply to most pharmacy schools nationwide. **Consult the web sites or catalogs of the schools to which you plan to apply to determine each school's specific requirements.**

#### **Chemistry**

Course Description		Hours	Semester
CHM 207/277	General Chemistry I and Lab	4 (w/ lab)	
CHM 208/278	General Chemistry II and Lab	4 (w/ lab)	
CHM 325/375	Organic Chemistry I and Lab	4 (w/ lab)	
CHM 326/376	Organic Chemistry II and Lab	4 (w/ lab)	
CHM 453	Biochemistry I	3	
CHM 454	Biochemistry II	3	

#### **Biology**

Course Description		Hours	Semester
BIO 207/277	Introduction to Molecular and Cellular Biology	4 (w/ lab)	
BIO 208/278	Introduction to Evolution and Ecology	4 (w/ lab)	
BIO 305/365	Anatomy & Physiology I	4 (w/ lab)	
BIO 306/366	Anatomy & Physiology II	4 (w/ lab)	
BIO 301/361	Microbiology with Lab	4 (w/ lab)	

#### **Additional Recommended BIO Courses**

Course Description		Hours	Semester
BIO 330	Genetics	3	
BIO 400	Immunology	3	
BIO 354	Cell and Molecular Biology	3	

*\*Recommended courses are based on local program recommendations*

#### **Physics**

Course Description		Hours	Semester
PHY 201/271	College Physics and Lab (Fall Semester Only)	4 (w/ lab)	
PHY 202/272	College Physics and Lab (Spring Semester Only)	4 (w/ lab)	
<b>OR</b>			
PHY 204/274	General Physics and Lab	4 (w/ labs)	
PHY 205/275	General Physics and Lab	4 (w/ labs)	

**Note:** College PHY is recommended unless General PHY is required for your major

### **Mathematics**

Course Description		Hours	Semester
MTH 201	Calculus (BIO Focused Sections Spring Only)	4	
MTH 161	Statistics	3	

### **English**

Course Description		Hours	Semester
ENG 107 or 311	College Writing or Advanced Writing	3	
ENG 112	Thinking Through Literature	3	

### **Economics**

Course Description		Hours	Semester
ECN 120 or ECN 121	Macro or Micro Economics	3	

### **Other Requirements**

Course Description		Hours	Semester
CST 225 or CST 107	Interpersonal Communication or Public Speaking	3	
PSY 101	Psychological Sciences	3	

**Please Note:** Some pharmacy programs may not accept science course work completed through a community college to satisfy pre-requisite requirements

**Oregon State University School of Pharmacy web site:** <http://pharmacy.oregonstate.edu>

**Pacific University School of Pharmacy web site:** <http://www.pacificu.edu/pharmd/>

Admission requirements and the characteristics of admitted students vary considerably among different pharmacy schools. For many programs, students typically complete a bachelor's degree prior to admission, but a completed degree may not be required. Many, but not all programs require the Pharmacy College Admission Test (PCAT), and many also require a minimum of 40 hours of pharmacy observation or experience. Most pharmacy schools participate in the PharmCAS centralized application service; some do not.

Oregon has two pharmacy schools (Oregon State University and Pacific University), both of which have full accreditation.

### **Websites for general information about pharmacy schools, programs, and careers:**

American Association of Colleges of Pharmacy (AACP) <http://www.aacp.org>

American Council on Pharmaceutical Education (ACPE) <http://www.acpe-accredit.org>

### **Pre-Health Professions Advising Office**

**Email:** [healthprofessions@up.edu](mailto:healthprofessions@up.edu)

