

# Pre-Pharmacy Student

## *Course Reference*

There are currently 114 colleges and schools of pharmacy in the United States that offer the Doctor of Pharmacy (Pharm.D.) degree. Oregon has two pharmacy schools (Oregon State University and Pacific University), both of which have full accreditation.

To become a licensed pharmacist, a student must complete a Pharm.D. degree program and pass a state licensing exam. The Pharm.D. is a doctoral degree which typically requires 4 years to complete, though some schools offer a 3-year, year-round program. The Oregon State University (OSU) Pharm.D. program is a 4-year program. Students complete their first two years on the OSU campus at Corvallis and the third year at OSU's satellite campus in Portland. Before entering the third year of the program, students must complete a bachelor's degree in an area of interest to them. The fourth year consists of supervised clerkships at pharmacy practice sites located throughout the state and region.

The Pharm.D. program at Pacific University is a 3-year, year-round program. The curriculum consists of two years of classroom instruction followed by one clinical year. Clinical experiences in patient care/pharmacy settings support the classroom instruction during the first two years. The curriculum is based on a modified-block design in which the students take courses sequentially rather than the traditional method of taking multiple courses concurrently.

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.

### ***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)	

Additional Recommended Courses (required by some universities):			
Course Description		Hours	Semester
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)	

**Note:** Oregon State does not accept Anatomy and/or Physiology courses taken at a community college

**Note:** Pacific University requires Microbiology but does not require the corresponding labs

Additional Recommended Courses (required by some universities):			
Course Description		Hours	Semester
BIO 354	Cell & Molecular Biology	3	

### Physics

Course Description		Hours	Semester
PHY 201/271	General Physics and Lab (Fall Semester)	4 (w/ lab)	
PHY 202/272	General Physics and Lab (Spring Semester)	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:** Some schools require a full year of physics with labs (OSU) and others only require a semester

### Mathematics

Course Description		Hours	Semester
MTH 201	Calculus	4	
MTH 161 or 361	Statistics*	3	

**Note:** Statistics is not required at Pacific University

### English

Course Description		Hours	Semester
ENG 107 or 311	College Writing or Advanced Writing	3	
ENG 112	Introduction to Literature	3	

### Other Requirements (vary by institution)

Course Description		Hours	Semester
CST 225 or CST 233	Speech/Communication	3	
ECN 121 or ECN 120	Economics	3	
PSY 101	General Psychology	3	
SOC 101 or POL 200	Social/Behavioral Sciences	3	
Language, THTR, HST, THE, PHL, ENG, MUS, FA	Humanities/Fine Arts	3	

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

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

**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)

