

Pre-Pharmacy Program

*Jacqueline Neal, Advisor
College of Science & Mathematics*

Pharmacy is one of the fastest growing fields in the health professions. Pharmacists are health professionals that are committed to public service. Their job is to serve patients and other health professionals in assuring appropriate use of medications. Responsibilities include interpretation and review of prescription orders, medication record screening and review, and accurate dispensing of medication.

Some pharmacists may also purchase and sell hundreds of health-related items, or assist physicians in drug therapy decisions and purchase of all medicines used by the facility. Pharmacists also act as educators in the proper use of drugs for both the public and health practitioners. A pharmacist is trained to understand the physical and chemical properties of drugs and the way they behave in the human body.

Why Choose a Career in Pharmacy?

- pharmacy is the third largest health profession in the U.S.,
- pharmacists are considered to be the most accessible health professional in the U.S.,
- currently, there are an estimated 7,000-10,000 unfilled pharmacy positions in the United States,
- according to the U.S. Department of Labor Bureau of Labor Statistics, the mean annual wage of pharmacists in 2005 was \$91,998,
- Surveys show that by the year 2020, 150,000 more pharmacists will be needed than are working today,
- Wright State University has all the courses needed to prepare you for any of Ohio's doctoral programs in pharmacy.

To be a pharmacist, one must obtain either a Ph.D. or a PharmD to be certified to practice. There are currently 93 schools in the United States that grant the PharmD or Ph.D in pharmacy and six (plus a new one in 2012!) of them are in the state of Ohio at:

- **Ohio State University in Columbus, Ohio**
- **University of Cincinnati in Cincinnati, Ohio**
- **University of Toledo in Toledo, Ohio**
- **Ohio Northern in Ada, Ohio**
- **University of Findlay**
- **Northeastern Ohio Universities**
- **NEW! Cedarville University (opening in 2012)**

See back page for school requirements

National Statistics (2007)

- The American Association of Colleges of Pharmacy (AACP) is comprised of 105 U.S. colleges and schools of pharmacy including 48,500 students enrolled in professional programs
- 60.4% of applicants to pharmacy school was submitted by females; 39.4% by males
- 13.6% of applicants were submitted by underrepresented minorities
- 20.0% had completed 3 or more years of post secondary education without earning a degree; 52.5% held a baccalaureate; 2.7% held a master's degree; 0.7% held a doctorate
- Applications to Applicants ratio was 4.5
- 8.3 applications were received by colleges and schools of pharmacy for every one entering student enrolled
- Average science GPA for the 2007 entering class was 3.28; overall GPA was 3.28
- Average composite PCAT (pharmacy college admissions test) score for accepted applicants was 72.6 percent



What is the PCAT?

The PCAT is required or highly recommended by most pharmacy schools. This national exam is administered four times a year (June, August, October, January) and measures verbal and quantitative ability, reading comprehension, and biology and chemistry knowledge. Each pharmacy college/school designates an appropriate examination time(s) and students should visit with the Pre-Health Advisor for additional knowledge of pharmacy school admissions policies



Ohio Pharmacy Programs

The Ohio State University www.pharmacy.ohio-state.edu

The four year PharmD degree can be started after completing a bachelor's degree in any undergraduate major as long as the pre-requisite courses are fulfilled. In addition to the PCAT, students are required to have the following courses before acceptance:

- **Anatomy:** ANT 310, 311, 312
- **Biology:** BIO 111, 112
- **Microbiology:** M&I 220 or BIO 310/311
- **Chemistry:** CHM 121/125, 122/126, 123/127
- **Organic Chem:** CHM 211/215, 212/216, 213/217
- **Analytical Chem:** CHM 312/314
- **Calculus:** MTH 229, 230
- **Physics:** PHY 111/101, 112/102, 113/103
- **All general education courses**

University of Cincinnati www.pharmacy.uc.edu

Students can start the PharmD program after as little as two years of undergraduate work, assuming all of the following courses will be completed prior to admission, along with the PCAT. *Generally, half the students accepted are UC undergraduates.*

- **English:** ENG 101, 102, 204
- **Biology:** BIO 111, 112, 115
- **Microbiology:** M&I 220 or BIO 310/311
- **Chemistry:** CHM 121/125, 122/126, 123/127
- **Organic Chem:** CHM 211/215, 212/216, 213/217
- **Calculus:** MTH 229
- **Statistics:** STT 264
- **Physics:** PHY 111/101, 112/102, 113/103

2008: 569 applications were received for 96 seats in the entering class; for those accepted, average GPA was 3.50 with an average PCAT score of 70.

University of Toledo www.utpharmacy.org

Ohio Northern www.onu.edu/pharmacy

University of Findlay www.findlay.edu

The majority of students come in as undergraduates out of high school, intending to go to the PharmD program in their third year. Some students choose to transfer in from another Ohio institution; however, with very few seats available, this is a difficult pathway for acceptance into pharmacy school. For more information regarding these programs, please visit their websites.

Cedarville University www.cedarville.edu/academics/pharmacy

Scheduled to open in 2012 and will accept most of their students out of high school, enrolling them in a pre-pharmacy undergraduate program at Cedarville University

Northeastern Ohio College of Pharmacy www.neoucom.edu

Students can start the PharmD program after as little as two years of undergraduate work, assuming all of the following courses will be completed prior to admission, along with the PCAT. *About one third of the class will be filled with students from one of their four partner institutions (Univ of Akron, Kent State, Youngstown State or Cleveland State).*

- **English:** ENG 101, 102, 204
- **Biology:** BIO 111, 112, 115
- **Chemistry:** CHM 121/125, 122/126, 123/127
- **Organic Chem:** CHM 211/215, 212/216, 213/217
- **Calculus:** MTH 229
- **Statistics:** STT 264
- **Biochemistry:** BMB 421, 423, 427
- **Physics:** PHY 111/101, 112/102
- **Economics:** EC 200
- **Communication:** COM 104
- **Psychology:** PSY 105

College of Science & Mathematics

For additional information please visit our website: www.wright.edu/cosm/premed
or contact the advisor: **Jacqueline Neal** at 937-775-4226