



# NORTHEASTERN STATE UNIVERSITY

*College of Science & Health Professions*

## Pre-Pharmacy for OUHSC

The Pre-Pharmacy program is designed for those students interested in attending the University of Oklahoma College of Pharmacy. Admission to the Doctor of Pharmacy program requires a minimum of 2 yrs of pre-professional university study and completion of approximately 60-75 semester hours of approved pre-pharmacy courses. All students are encouraged to contact a pre-pharmacy counselor at the College of Pharmacy for assistance in planning an appropriate study. For more information about the program go to <http://pharmacy.ouhsc.edu>. **It is strongly recommended that the applicant has earned or is earning a Bachelor degree with a strong science background.**

### MINIMUM REQUIREMENTS:

		Hours	Completed
English 1113	Freshmen Composition I	3	<input type="checkbox"/>
English 1213	Freshman Composition II	3	<input type="checkbox"/>
Communication 1113	Fundamentals of Communication	3	<input type="checkbox"/>
History 1483 or 1493	American History	3	<input type="checkbox"/>
Mathematics 1513	College Algebra	3	<input type="checkbox"/>
Mathematics 2614	Calculus I	3	<input type="checkbox"/>
Political Science 1113	American Federal Government	3	<input type="checkbox"/>
Psychology 1113	General Psychology	3	<input type="checkbox"/>
Social/Behavioral Science		3	<input type="checkbox"/>
<b>Life Science Requirements</b>			
Biology 1123	Evolution & Diversity	3	<input type="checkbox"/>
Biology 1131	Investigative Laboratory	1	<input type="checkbox"/>
Biology 3224	Microbiology	4	<input type="checkbox"/>
*Biology 2154 <b>OR</b> 3314 <b>OR</b>	Human Anatomy <b>OR</b> Human Physiology <b>OR</b>	4	<input type="checkbox"/>
Chemistry 4214	Biochemistry		
Chemistry 1123, 1131	General Chemistry I (Lecture & Lab)	4	<input type="checkbox"/>
Chemistry 1223, 1231	General Chemistry II (Lecture & Lab)	4	<input type="checkbox"/>
Chemistry 3123, 3132	Organic Chemistry I (Lecture and Lab)	5	<input type="checkbox"/>
Chemistry 3223, 3232	Organic Chemistry II (Lecture and Lab)	5	<input type="checkbox"/>
Physics 1115	General Physics I	5	<input type="checkbox"/>
<b>Humanities</b>			
History 1113 <b>OR</b> 1213	Early Western Civilization <b>OR</b> Modern Western Civilization	3	<input type="checkbox"/>
Select one of the following Non-Western Culture classes:		3	<input type="checkbox"/>
Soc 4153, Soc 3123, Mus 3861, Mus 3852, Hist 4653, Hist 3723, Engl 4883, Art 3013, Anth 4153, Anth 3123, or Anth 2223			
Select one of the following Artistic Forms classes:		3	<input type="checkbox"/>
Thtr 2843, Thtr 2763, Mus 3002, Mus 2543, Hum 2843, Hum 2763, Engl 3033, Art 4453, Art 3223, or Art 3213			

**\*Preference will be given to applicants who have successfully completed upper level sciences, including: biochemistry, both human anatomy and human physiology.**

Foreign Language Requirement: 2 courses in same language **OR** 2 years of same language in high school.

For additional information contact  
Prehealth Professions Advising  
Dr. Craig Clifford  
Science Building Room 141  
918-444-3002  
clifford@nsuok.edu

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## ADDITIONAL INFORMATION

The pharmacist plays a vital role in the delivery of quality health care. As an expert in the action and use of drugs, the pharmacist serves as the primary source of pharmaceutical care for individual patients. Pharmacists provide drug products, drug information, therapeutic consultations, patient monitoring, and other pharmacy services in a variety of different settings. Some of the areas are:

**The Community Pharmacy** is the most accessible source of health care services in the country. The community pharmacist provides prescription and over-the-counter medications as well as vital drug and health care information.

**The Hospital Pharmacy** provides a setting for the pharmacist to work closely with physicians, nurses, and other professionals. In addition to the regular dispensing and consulting activities, hospital pharmacists are often involved with specialized programs, pharmacokinetic services and other specialized services.

**Pharmaceutical Industry** provides many different opportunities for pharmacists in research and development, production and quality control, marketing and sales, regulatory affairs and management.

**The Federal Government** employs pharmacists in a variety of positions in the Public Health Service, Veterans Administration, Food and Drug Administration and Armed Services (Army, Navy, and Air Force).

There are currently five board-certified specialties in pharmacy: Oncology, Nuclear Pharmacy, Nutrition, Pharmacotherapy, and Psychiatric. However, there are many residency opportunities for those interested in clinical pharmacy. Some areas available at OU include ambulatory care, oncology, infectious diseases, community, and many others.

### **Employment Opportunities**

Employment of pharmacists is expected to grow faster than the average for all occupations, mainly due to the increased pharmaceutical needs of a larger and older population. Other factors include the likelihood of scientific advances that will make more drug products available for the prevention, diagnosis, and treatment of disease; new developments in administering medication; and well-informed consumers, increasingly sophisticated about health care and avid for detailed information about drugs and their consequences. The increased severity of the typical hospital patient's illness, together with rapid strides in drug therapy, is likely to heighten demand for clinical pharmacists in hospitals, HMO's, and other health care settings. The job outlook for pharmacists is expected to be excellent.

### **Admission Requirements**

*Applicants must complete all pre-pharmacy requirements with a grade of C or above and maintain a minimum cumulative grade point average (GPA) of 2.5 on a 4.0 scale to be considered for admission. Although a minimum GPA of 2.5 is required to apply, students generally have substantially higher averages to be considered competitive in the selection process. Official transcripts reflecting all pre-pharmacy coursework must be submitted by June 1 of the admission year. Although all attempts of a pre-requisite course are included in the calculation of the GPA, applicants should be aware that the most recent attempt of a pre-requisite course will be the grade on record in determining completion of requirements. This means that an applicant's last attempt of a course must be a C or better to maintain eligibility for admission. Applicants are required to be in good standing at the college or university currently or last attended.*

### **General Application Requirements**

Admission to the Doctor of Pharmacy program is on a competitive basis. A class of approximately 120 students is admitted each fall semester to the Doctor of Pharmacy program. Residents of Oklahoma receive some preference in the selection process but all qualified candidates are encouraged to apply. Applicants who have completed all admissions requirements and an interview are generally advised of their admission status in March of the admission year.

For admission to Fall 2013, the PharmCAS application must be submitted by November 1, 2012. The PharmCAS application will be available the first week in June 2012 for Fall 2013 applications at <http://www.pharmcas.org>. All official college transcripts, three (3) letters of reference, and PCAT scores (Code 0104) must be submitted directly to PharmCAS. The PCAT must be taken prior to the November 1 deadline. The Admissions Committee when making decisions uses the most recent score. Applicants are advised to take this into consideration when choosing to take the PCAT multiple times. It is **HIGHLY RECOMMENDED** that you select to have your references submitted electronically to PharmCAS. Electronic references are the **PREFERRED METHOD** of receipt.

The College of Pharmacy supplemental application must also be submitted by November 1, 2012.

***Contents of this publication are subject to revision without notice. The provisions of this publication do not constitute a contract, expressed or implied between any applicant, student, or faculty member of the College of Pharmacy.***

**For Pharmacy Information from the University of Oklahoma contact:** Pharmacy Student Affairs University of Oklahoma Health Sciences Center, P. O. Box 26901, Oklahoma City, OK 73126 or call (405) 271-6598.

**Email:** [oupharmd@ouhsc.edu](mailto:oupharmd@ouhsc.edu)

**OU Pharmacy Site:** [www.pharmacy.ouhsc.edu/](http://www.pharmacy.ouhsc.edu/)

**OU Pharmacy Application Site:** [www.pharmcas.org](http://www.pharmcas.org)