

## PHARMACEUTICAL PRODUCT DEVELOPMENT

### UNDERGRADUATE FACT SHEET

The bachelor of science in pharmaceutical product development prepares you for a career in the biopharmaceutical industry. The curriculum was developed through extensive dialog with representatives of the pharmaceutical and biotechnology industries, and is designed to meet the unique needs of those seeking careers in these dynamic industries. The curriculum for the degree is interdisciplinary in nature; you will acquire a solid foundation in the basic and pharmaceutical sciences, as well as experience in technical writing, oral communication, statistics, economics, and biomedical ethics, taught by WCU faculty. The capstone interdisciplinary courses cover all major aspects of the pharmaceutical industry and are taught by industry professionals, providing the student with current information about the pharmaceutical and biotechnology industries. This innovative curriculum is coupled with up to two summers of internships following your sophomore and junior years. These paid assignments are provided within the pharmaceutical industry and give you invaluable, practical experience and a level of understanding that complements classroom learning. Graduates of this program are poised to enter the biopharmaceutical industry in a wide variety of positions, with a breadth of understanding that otherwise takes several years of industrial experience to acquire. Some of our graduates have decided to continue their education at medical schools, such as Jefferson Medical College and Philadelphia College of Osteopathic Medicine; graduate schools, such as John Hopkins, Penn State, and the University of Delaware; and schools of pharmacy, such as Jefferson and the University of Pittsburgh.

### Admission Requirements

This program is for academically talented and highly motivated students and requires a heavy math and science course load.

Admission standards include an SAT score of 1200 and a high school class rank in the top 25 percent. You also must complete four years of high school mathematics, science, and English.

If you are a transfer student into this curriculum, you must meet the program's admission standards. In order for science course work to transfer into this program, you must have earned a grade of C or better. A minimum of 24 credit hours must be completed at West Chester University for successful evaluation and recommendation of the Pharmaceutical Product Development Committee.

### Undergraduate Degree

Bachelor of Science in Pharmaceutical Product Development

### Degree Completion Requirements

The internship experiences require a GPA at WCU of 2.75 and no grade less than C- in the required science course work. For graduation, you must complete all the required courses in chemistry and biology, including the assignments and the capstone interdisciplinary courses.

### Summer Internship Experiences

Each student in the pharmaceutical product development program is required to complete at least one summer internship which will take place at local pharmaceutical and biotechnology companies.

In past years, we have placed students at

Absorption Systems, LP

Accugenix, Inc.

Agilent Technologies

Aptagen

Cephalon, Inc.

Cytokine PharmaSciences, Inc.

Endo

Icon Clinical Research, Inc.

Ipsos

Life Sensors

Molecular Targeting Technologies Inc. (MTTI)

NuPathe, Inc.

Nuron Biotech

Particle Sciences

Pfizer

*Learn More*

# UNDERGRADUATE FACT SHEET

Progenra  
ProMetrics  
Reaction Biology  
Shire  
Thermo Fisher Scientific  
University of the Sciences  
Viropharma  
Wistar Institute

## Faculty

Faculty from our College of Arts and Sciences present the core curriculum. In addition, regional professionals serving as adjunct faculty participate in the three capstone interdisciplinary courses.

## Facilities

The courses in this curriculum are housed in the renovated Schmucker Science Center and the Merion Science Center.

The participating science departments have a variety of modern equipment, all of which are used in teaching and student research. This equipment includes a confocal laser scanning microscope, a P3-level tissue culture facility, a cold room, an ultracentrifuge, scintillation counting system, gas and liquid chromatographs, Fourier transform infrared spectrometer, nuclear magnetic-resonance spectrometers, ultraviolet-visible spectrometers, atomic absorption spectrometer, differential scanning calorimeter, x-ray power diffractometer, electroanalyzer, new transmission and scanning electron microscopes, single-side band microscope (the world's second), fluorescence microscopes, apparatus for video microscopy, cryostat, gamma ray counter, computerized DNA sequencing analyzer, recombinant DNA equipment, electrophoresis equipment, anaerobic bacterial culture chamber and incubator, and patch clamping equipment. In addition, you will also be exposed to other equipment unique to the pharmaceutical and biotechnology industries during your summer internship.

## For More Information

Dr. Stephen J. Zimmiski, Director  
Pharmaceutical Product Development Program  
117A Schmucker Science Center South  
West Chester University  
West Chester, PA 19383  
610-436-2939  
E-mail: [ppd@wcupa.edu](mailto:ppd@wcupa.edu)  
Web site: [http://www.wcupa.edu/\\_academics/sch\\_cas/pharm/Undergraduate Catalog](http://www.wcupa.edu/_academics/sch_cas/pharm/Undergraduate%20Catalog): [http://wcupa.edu/\\_information/official.documents/undergrad.catalog/](http://wcupa.edu/_information/official.documents/undergrad.catalog/)

## About West Chester University

A comprehensive, public institution, West Chester University of Pennsylvania offers high-quality undergraduate and graduate degree programs in more than 100 subject areas, as well as certification and certificate programs. As one of the largest members of the Pennsylvania State System of Higher Education, West Chester offers a full and rewarding educational experience as well as reasonable tuition. More than 15,400 graduate and undergraduate students, as well as 1,500 faculty and staff, study and work on the picturesque, 406-acre campus. Strategically located at the center of the mid-Atlantic corridor between New York City and Washington, D.C., West Chester University is just 25 miles west of Philadelphia and 17 miles north of Wilmington.

## Information on Admission

### Office of Admissions

Emil H. Messikomer Hall, 100 West Rosedale Ave.  
West Chester University, West Chester, PA 19383  
610-436-3411 • Toll-free: 1-877-315-2165  
E-mail: [ugadmiss@wcupa.edu](mailto:ugadmiss@wcupa.edu)  
WCU home page: [www.wcupa.edu](http://www.wcupa.edu)  
Facebook: [www.facebook.com/wcupa](http://www.facebook.com/wcupa)

