PHARMACEUTICAL PRODUCT DEVELOPMENT

College of the Sciences and Mathematics

117A Schmucker Science Center South
610-436-2939
Pharmaceutical Product Development (http://www.wcupa.edu/pharm)
Dr. Simpson (tsimpson2@wcupa.edu), Director

Pharmaceutical Product Development offers, on a limited basis, graduate courses in this area to graduate students from other programs of study.

Policies

All graduate students are held to the academic policies and procedures outlined in the graduate catalog. Students are encouraged to review departmental handbooks for program tips, suggested course sequences, and explanations of procedures. When applicable, additional policies for specific department programs may be listed below.

Faculty

Professors

John Gault (jgault@wcupa.edu) (1991)
B.S., U.S. Naval Academy; M.B.A., University of Pennsylvania; Ph.D., Drexel University

Gustave N. Mbuy (gmbuy@wcupa.edu) (1985)
B.A., University of California; M.M., Ph.D., University of Cincinnati

Randall H. Rieger (rieger@wcupa.edu) (2000)
B.A., Bowdoin College; M.S., Ph.D., University of North Carolina

Joan Woolfrey (jwoolfrey@wcupa.edu) (2000)
B.S., North Dakota State University; M.A., The New School for Social Research; Ph.D., University of Oregon

Associate Professors

James R. Pruitt (jpruitt@wcupa.edu) (2011)
B.S., Ph.D., University of California

Thomas R. Simpson (tsimpson2@wcupa.edu) (2016)
Director, Pharmaceutical Product Development
B.S., Allegheny College; M.S., Ph.D., University of Rochester

Stephen J. Zimniski (szimniski@wcupa.edu) (2006)
B.S., University of Maine- Orono; M.A., University of Missouri; Ph.D., Boston University

Courses

PPD

PPD 535. Pharmaceutical Chemistry. 3 Credits.
Through the use of case studies, the student will learn the role of the chemist in drug discovery and development. Specifically, target initiation, competitive surveillance, lead discovery and optimization, counterscreens for selectivity, pharmacokinetics, selection criteria for entering development and synthetic optimization will be elucidated.
Cross listed courses CHE 535, PPD 535.

PPD 582. Drug Design II. 3 Credits.
This graduate level course provides an overview of the pharmaceutical industry and the drug development process, including lectures of each phase of the manufacturing process and drug development process including the role of regulatory and government affairs in drug development. In addition to weekly reading assignments students will be expected to analyze specific case studies on a weekly basis.
Typically offered in Fall.

PPD 583. Drug Design III. 3 Credits.
This graduate level course provides an overview of the pharmaceutical industry and the drug discovery process, including lectures on the use of computers in drug design the newest targets for development as well as lectures on proteomics, HTS and translational medicine.
Typically offered in Spring.

PPD 590. Special Topics in Drug Development. 1 Credit.
This special topics course is designed to offer in-depth seminars about novel and exciting areas of research in the field of pharmaceutical product development and drug discovery. Topics will change each semester. Invited speakers from the pharmaceutical industry will be presenting the most up-to-date information about their areas of expertise.
Pre/Co requisites: PPD 590 requires a prerequisite of PPD 581.
Repeatable for credit.