

## CLINICAL PHARMACEUTICAL SCIENCES

### PROGRAM GOAL

There is a strong need for clinically-trained individuals who also have rigorous research training to facilitate bench-to-bedside or translational research. Indeed, the need for clinicians trained to work in interdisciplinary, team-oriented research environments has been highlighted by the National Institutes of Health. The University of Florida College of Pharmacy has established a Clinical Pharmaceutical Sciences training program with a goal to prepare motivated individuals to pursue independent research careers in academia, industry, or government. The current research focus of the program is on understanding genetic and non-genetic factors that contribute to variability in drug response. Selected areas of research include cardiology, asthma/pulmonary, infectious diseases, psychiatry, and clinical pharmacology/drug metabolism. Students in the program conduct hypothesis-driven clinical research that includes a strong laboratory component. Excellent research facilities are available including state-of-the-art bioanalytical and pharmacogenomics laboratories, and an NIH-funded Clinical Translational Science Institute ([CTSI](#)) and Clinical Research Center ([UF CRC](#)) for clinical study conduction. The program is a collaborative effort between the Departments of Pharmacotherapy and Translational Research and Pharmaceutics in the College of Pharmacy. Upon completion of the core/elective curriculum and dissertation, the Doctor of Philosophy (Ph.D.) Degree is awarded.

### TYPICAL CURRICULUM

#### Required Courses

	<i>Credit Hours</i>
Advanced Genetics (PCB5065)	4
Pharmacogenetics of drug metabolism and transport (PHA6427)	2
Pharmacogenomics (PHA6449)	2
Pharmaceutical Analysis (PHA6416)	2
Advanced Pharmacokinetics (PHA6125)	3
Responsible conduct of biomedical research (GMS7003)	1
Advanced Genetics (GMS6012, GMS6015)	4
Grant writing (GMS6811)	2
Manuscript writing (GMS6903)	2
Epidemiology (PHC6001)	3
Statistics I (STA6166) or Applied Biostatistics I (GMS6862)	3
Statistics II (STA6167) or Applied Biostatistics II (GMS6863)	3
PTR Research Seminar (PHA6938)	1-2
Advanced Research (PHA7979)	Varies
Doctoral Research (PHA7980)	Varies

*Additional courses are available depending on background/interests*

### TYPICAL TIMELINE:

Year 1 – 2: Completion of Curriculum. Selection of Major Advisor and Graduate Committee.

Year 2 – 3: Completion of elective course-work and the Oral Comprehensive Examination.

Year 3 – : Completion of dissertation research. Dissertation preparation and defense.

Total Credits for Degree Confirmation: Didactic credits: 32 and a total of 90 credit hours with the inclusion of research/dissertation and elective credits. Program duration: approximately 4 years.

**WHO SHOULD APPLY?** Preference will be given to candidates who have earned a PharmD degree from an accredited school of pharmacy. A student enrolled in the University of Florida PharmD program may pursue a combined Pharm.D./Ph.D. under current College of Pharmacy guidelines ([joint degree programs](#)).

**HOW MUCH DOES IT COST?** Students accepted into the program may be offered a Teaching Assistantship and tuition waiver. As part of training, students will provide clinical pharmaceutical care in the University of Florida Shands Hospital and clinics. Individuals not eligible for pharmacy licensure in Florida can be awarded a Teaching Assistantship, which includes a stipend and tuition remission.

### FOR MORE INFORMATION

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