Targeting Disease, Delivering Hope

The Doctor of Philosophy (Ph.D.) degree programs in Pharmacology, Pharmacology/Medicinal Chemistry and Pharmaceutics emphasize independent research, didactic classroom and in-depth study of a pharmacological or pharmaceutical problem in each student’s chosen research specialty.

The college’s faculty includes investigators with active National Institutes of Health-supported projects, U.S. and international patents, editorial appointments on major scientific journals, and collaborations with colleagues at fellow Texas Medical Center institutions.

With active, hands-on roles in research activities, students have established an impressive track record of serving as primary or contributing authors on high-impact, peer-reviewed publications; receiving travel awards to present posters or platform talks; and, after graduation, securing jobs in academia, the pharmaceutical industry, public and private research institutions, and government.

In Pharmacology, faculty and students work in areas of cardiovascular, pulmonary and renal pharmacology, cellular and molecular pharmacology, and neuropharmacology. In Pharmaceutics, faculty and students work in areas of metabolism; drug and gene delivery systems; preclinical, clinical, population and physiological-based pharmacokinetics; drug stability; and bioavailability. In Medicinal Chemistry, projects are available in drug screening and design, synthesis of novel drugs, identification of drug targets and exploration of natural products.

Specific areas of investigation and discovery include identifying and developing novel drug targets and therapeutic agents/drug delivery systems for cancer, heart disease, obesity, hypertension, Alzheimer’s and other neurodegenerative diseases, Fragile X Syndrome, atherosclerosis, asthma, chronic stress and anxiety, diabetes, alcohol abuse, and bacterial/fungal infections, as well as improving drug metabolism and reducing inflammation.

In late 2017, UHCOP will move into its new state-of-the-art teaching and research space in Health & Biomedical Sciences Building 2, a 300,000-square-foot, nine-story building. HBSB2 will provide state-of-the-art laboratory facilities and equipment for faculty and students to conduct cutting-edge basic and bench-to-beside translational research, including high-throughput drug screening systems, 3-D molecular modeling, confocal imaging, and nuclear magnetic resonance.
ADMISSIONS & COURSE OF STUDY

Ph.D. in Pharmacology, Pharmaceutics and Pharmacology/Medicinal Chemistry

Application Deadline for Fall 2018: January 10, 2018

For complete application and admissions information, visit http:/ /www.uh.edu/pharmacy/prospective-students/graduate-programs/phd-graduate-admissions

Eligibility: Minimum B.S. and GRE required; See website for other application requirements

Program Benefits: Teaching/Research Assistantships; Graduate Tuition Fellowships; Opportunities for Competitive Stipends; Funding of Professional Travel

Ph.D. in Pharmacology (PCOL)*

Course Name                                                                                   Hours
Advanced Pharmacology I-II                 6
Biostatistics & Experimental Design         3
Principles of Molecular Pharmacology        3
Scientific Writing                           3
Cardiovascular & Renal Pharmacology, Neuropharmacology, Cellular Pharmacology Eiective            3
Responsible Conduct of Biological Research  1
Special Problems (Research)                 11
Dissertation Research                       30
Pharmacology Seminar (1 credit each, 4 semesters)            4
Pharm. Literature Review (1 credit each, 6 semesters)                6
Total Hours for Ph.D. in Pharmacology                        80

Ph.D. in Pharmaceutics (PCEU)

Course Name                                                                                   Hours
Regulatory Affairs                             3
Advanced Pharmaceutics I-II                   6
Advanced Pharmacokinetics                      4
Biostatistics & Experimental Design           3
Scientific Writing                              3
Advanced Drug Delivery                        3
Elective                                        3
Responsible Conduct of Biological Research    1
Special Problems (Research)                    11
Dissertation Research                          30
Pharmaceutics Seminar (1 credit each, 4 semesters)            4
Pharm. Literature Review (1 credit each, 6 semesters)                6
Total Hours for Ph.D. in Pharmaceutics                     80

*A separate curriculum is available to students concentrating in Medicinal Chemistry. Contact us for more information.

Equal Opportunity Policy

The University of Houston is an Equal Opportunity/Affirmative Action institution. Minorities, women, veterans and persons with disabilities are encouraged to apply. The university reserves the right to make changes without notice in any publication as necessitated by university or legislative action.

Program Contact

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PPS (10/17)