

Pharmacology & Physiology, PHD

Pharmacology, the study of the effects of drugs and chemicals on living organisms, is inherently interdisciplinary and builds on the strengths of physiology, biochemistry, cell biology, neuroscience, and molecular biology. In the Ph.D. in Pharmacology & Physiology (<https://pharmacology.georgetown.edu/program/phd-pharmacology/>), students use drugs and chemicals as tools, probing the molecular machinery of living systems in order to understand how cellular and organ systems function and how they are regulated.

The first year of study is divided between research in various laboratories (rotations) and coursework. The following years are devoted, almost exclusively, to a novel research project culminating in publications in international journals and an original Ph.D. dissertation. On average, our students complete the program in approximately 5 years.

- Modality: On Campus
- Academic Policies and Procedures: BGE Handbook (https://docs.google.com/document/d/1rkaOm8U_1eVwabvkl_HFvpfSWrMGnrc6Ex41erxP7g/edit?usp=sharing) and Department of Pharmacology & Physiology Resources Canvas site. (<https://georgetown.instructure.com/courses/200329>)
- Contact the Program (<https://pharmacology.georgetown.edu/contact-us/#phd>)

This program is offered through Biomedical Graduate Education (BGE) (<https://biomedicalprograms.georgetown.edu/>) at Georgetown University School of Medicine.

Requirements

Students are required to complete 33 credits of coursework, which includes 31 credits of required courses and 2 credits of electives.

Additionally, students are required to pass Comprehensive Written and Oral Examinations.

Elective Courses	2
3 Rotations	
Comprehensive Written & Oral Exams	
Annual Seminar Presentations	
Thesis Research	
Thesis Defense	
Total Credits	35

Related Programs

- Pharmacology, MS (<http://coursecatalog.georgetown.edu/programs/pharmacology-ms/>)

Code	Title	Credits
Required Courses		33
PHPH 9985	PHPH Lab Rotation Summer	
PHAR 6200	Pharmacokinetics/dynamics	
PHAR 6201	Excitable Membranes	
PHSL 6501	Fundamentals. Human Physiology	
PHSL 6534	Cell & Molec Physiology	
NSCI 5001	Neuroscience Survey I	
PHPH 9986	PHPH Lab Rotation Fall	
PHAR 6001	Graduate Pharmacology	
PHAR 8000	Readings in Grad Pharm & Phys	
NSCI 5007	Surv Skills & Ethics for Scien	
PHPH 9987	PHPH Lab Rotation Spring	
PHPH 8001	Advanced Pharm	
NSCI 5009	Practical Data Anlys & Exp Des	