

# MEDICINE

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## Departments and Schools

The College of Medicine has seven basic science departments that include Biochemistry and Molecular Biology, Cellular and Molecular Physiology, Comparative Medicine, Microbiology and Immunology, Neural and Behavioral Sciences, Pharmacology, and Public Health Sciences. Additionally, a number of other departments house basic scientists and physician-scientists that train graduate students. These include: Anesthesiology, Dermatology, Medicine, Neurology, Neurosurgery, Obstetrics and Gynecology, Ophthalmology, Orthopaedics, Pathology, Pediatrics, Physical Medicine and Rehabilitation, Psychiatry and Surgery.

## Graduate Programs

At the College of Medicine, there are no department-based graduate programs, with the exception of Public Health Sciences. The following represent the integrative doctoral programs at the College of Medicine:

The doctoral degree in **Anatomy** provides coursework to help students achieve advanced understanding of specific knowledge related to human anatomic sciences, including medical gross anatomy, human embryology and human microscopic anatomy.

MORE INFORMATION (<http://med.psu.edu/anatomy-phd/>)

The doctoral degree program in **Biomedical Sciences (BMS)**, with its options in Biochemistry and Molecular Genetics, Translational Therapeutics, Cellular and Integrative Physiology, and Virology and Immunology, is a nationally and internationally recognized interdisciplinary graduate program that provides students curricular and research training with a unique focus on human health and disease. Students receive rigorous training that provides the skills necessary to be leaders in biomedical research and other endeavors including business, education, law, journalism, and public policy.

MORE INFORMATION (<http://med.psu.edu/biomedical-sciences-phd/>)

The doctoral degree program in **Biostatistics** focuses on preparing students to develop new means of uncovering key scientific discoveries using cutting edge analytical and bioinformatics. Technological advances in areas such as imaging, high throughput omics, and electronic medical records constantly add demand for graduate training in Biostatistics.

MORE INFORMATION (<http://med.psu.edu/biostatistics-phd/>)

The doctoral degree program in **Neuroscience** brings together scientists from different basic and clinical disciplines to focus on the nervous system. Some researchers seek to clarify the development or function of the brain at the cellular, molecular, or genetic levels. Others seek to understand how the nervous system processes information, controls autonomic functions, regulates states of consciousness, or determines behavior. Still others search for the means to diagnose, prevent, and successfully treat malignant brain tumors, congenital and acquired brain diseases, neurodegenerative diseases, or dysfunctions caused by pathologic states in brain structure.

MORE INFORMATION (<http://med.psu.edu/neuroscience-phd/>)

**Public Health Sciences** offers the following degrees: Master of Public Health (MPH), Doctor of Public Health (DrPH), Master's degree in Public Health Sciences and Homeland Security – Public Health Preparedness. As a national leader in research, education and outreach, the Department

of Public Health Sciences aims to advance theory and practice that prepares future public health professionals, improves population health, and reduces health disparities across communities in Pennsylvania, the nation, and internationally.

MORE INFORMATION (<http://med.psu.edu/phs/>)