



UNIVERSITY OF
GEORGIA

GRADUATE DEGREES IN PHARMACEUTICAL AND BIOMEDICAL SCIENCES



Welcome to the University of Georgia College of Pharmacy and the Department of Pharmaceutical and Biomedical Sciences!

We are delighted with your interest in our graduate programs, which include a Master of Sciences (M.S.) as well as a Doctor of Philosophy (PhD) degree in Pharmaceutical and Biomedical Sciences. As you will discover, we provide a world-class education in pharmaceutical and biomedical science research with access to state-of-the-art equipment and facilities. The only public College of Pharmacy in the state of Georgia, our program is offered at an affordable rate and in a comprehensive, hands-on atmosphere designed to train scientists who plan to work at the top of their profession.

PROGRAM GOALS:

- Provide students with a breadth of knowledge in modern pharmaceutical and biomedical science disciplines and application to drug discovery and development
- Give students depth of knowledge and technical training in their area of expertise
- Teach students to conduct research with the highest ethical standards
- Train students to think critically and creatively to solve difficult scientific problems
- Promote a rigorous academic and research environment in which students will add to the current knowledge in their fields

AREAS OF RESEARCH:

- Molecular Pharmacology: Identifying and Understanding Novel Drug Targets
- Drug Discovery and Medicinal Chemistry: Creation of Novel Drugs
- Molecular Pharmaceutics: Optimizing the Safety and Efficacy of Drugs

INTERDISCIPLINARY APPROACH TO RESEARCH:

- Cancer Biology
- Disease Models and Mechanisms
- Drug Discovery and Development
- Chemical Biology
- Pathogens and Immunity
- Cell Biology
- Neuroscience
- Epigenetics and Chromatin
- Molecular Biophysics and Structural Biology



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CURRICULUM:

Core Courses include:

- PHRM 8010 Medicinal Chemistry & Structural Biology
- PHRM 8020 Molecular Pharmacology of Disease and Therapeutics
- PHRM 8030 Advanced Pharmaceutics and Biopharmaceutics
- PHRM 8200 Pharmaceutical & Biomedical Sciences Seminar
- PHRM 8080 Grant and Manuscript Writing (Ph.D. only)

Elective Courses (including but not limited to):

- PHRM 6910 Introductory Toxicology
- PHAR 6200 Clinical Trials Design
- PMCY 7050 Abused Drugs
- BCMB 6200 Biotechnology
- BIOS 7010 Introductory Biostatistics
- PHRM 8600 Drug Targets in Signal Transduction Cascades
- PHRM 8260 Pharmacokinetics
- PHRM 8190 Chemotherapy and Cancer
- PHRM 8100 & 8110 Pharmaceutical Analysis I & II
- PHRM 8120 Mass Spectrometry
- PHRM 8940 Organ Systems Toxicology
- PHRM 8930 Chemical Toxicology
- CBIO 8100 Advanced Immunology
- CBIO 8400 Advanced Cell Biology
- GENE 8120 Advanced Topics in Gene Expression
- GENE 8920 Nucleic Acids
- GENE 8930 Advanced Molecular Genetics
- VPHY 8010 Mammalian Cell Physiology
- VPHY 8400 Neurophysiology
- CHEM 8110 Protein Structure-Function Relationships
- CHEM 8189 NMR Spectroscopy
- CHEM 8310 Reaction Mechanisms in Organic Chemistry
- CHEM 8320 Synthetic Organic Chemistry

STUDENT ORGANIZATIONS:

Pharmaceutical & Biomedical Sciences Student Organization

- Multiple events throughout the year
- Mentoring, leadership opportunities, community involvement, and exchange of knowledge

American Association of Pharmaceutical Scientists

- Monthly meetings and/or events
- Nation-wide networking opportunities
- Access to national network of scientists



ALUMNI JOB PLACEMENT:

- Pharmaceutical, Biopharmaceutical, Medical Device, Nutraceuticals, Government, Research Universities
- Examples include: St. Jude's Research Hospital, Purdue University, UNC-Chapel Hill, Emory University, Merck, U.S. Department of Occupational Health & Safety, Biogen, Battelle Memorial Institute, Gilead Pharmaceuticals, Pfizer Inc., U.S. Food & Drug Administration, Medical Neurogenetics, Lab Corps



APPLYING TO PHARMACEUTICAL & BIOMEDICAL SCIENCES:

Master of Science Degree:

- Applicants to the PBS Master's Program must submit a complete application via the UGA Graduate School's website: grad.uga.edu
- Additionally, prospective students must identify a PBS faculty member to serve as a major professor prior to admission. Students should contact faculty members directly to inquire and notify the PBS graduate admissions office when a faculty mentor is identified.

Doctor of Philosophy Degree:

- Applicant to the PBS PhD program must submit a complete application through the UGA Graduate School, via the Integrated Life Sciences program. Instructions for submitting your application can be found at their website: www.ils.uga.edu
- The application deadline is December 1, and admission through ILS is only available for fall semester admittance.
- It is also possible, but less common, for PhD applicants to be admitted directly into the program with a pre-selected and confirmed faculty advisor. Direct admit PhD student do not perform rotations.
- Competitive stipend available.



The University of Georgia is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, masters, specialist and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University of Georgia.

INFORMATION AND CONTACT INFO

Program information and the application can be accessed online at
**[rx.uga.edu/departments/academic/
pharmaceutical-biomedical-sciences/](https://rx.uga.edu/departments/academic/pharmaceutical-biomedical-sciences/)**

Questions also may be directed to the Graduate Coordinator and Graduate Program Specialist at
pbsadm@uga.edu

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