APPLYING TO PHARMACEUTICAL & BIOMEDICAL SCIENCES:

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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

CURRICULUM:

Core Courses include:

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

Elective Courses (including but not limited to):

• PFRM 6910 Introductory Toxicology
• PHAR 6200 Clinical Trials Design
• PMCY 7050 Abused Drugs
• BCMB 6200 Biotechnology
• BIOS 7010 Introductory Biostatistics
• PFRM 8600 Drug Targets in Signal Transduction Cascades
• PFRM 8260 Pharmacokinetics
• PFRM 8190 Chemotherapy and Cancer
• PFRM 8100 & 8110 Pharmaceutical Analysis I & II
• PFRM 8120 Mass Spectrometry
• PFRM 8940 Organ Systems Toxicology
• PFRM 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

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