UNIVERSITY OF KENTUCKY COLLEGE OF MEDICINE
DEPARTMENT OF PHARMACOLOGY AND NUTRITIONAL SCIENCES

We are a unique unit, the only one of its kind in US academic institutions, with research and graduate training programs in Pharmacology and Nutritional Sciences within one basic science Department.

Pharmacology, as a discipline, is an area of biomedical sciences that will almost surely grow in importance, as the biomedical research community, government and pharmaceutical industry strive to utilize new scientific advances to develop therapies for the health and welfare of an aging society.

Similarly, nutritional sciences is a research area of increasing importance as a large majority of chronic diseases that adversely influence the health of the US population have a nutritional basis in disease prevention, development and therapy.

We have merged these pivotal research and training programs into a single, multidisciplinary and collaborative environment that focuses on the development of nutritionally-based concepts and pharmacologic entities for the treatment of chronic diseases.
MASTER’S OF SCIENCE IN NUTRITIONAL SCIENCES

The Master’s of Science in Nutritional Sciences (NS MS) provides multidisciplinary, comprehensive, and tailored training for students interested in pursuing careers in research, industry, academia, healthcare, education, wellness, and other nutrition-related fields. Core coursework provides a strong foundation in macronutrient and micronutrient metabolism, as well as nutrition guidelines across the life cycle. The remaining elective courses offer interdisciplinary training specific to students’ emphasis areas and include opportunities for independent research or special projects.

Students accepted into the NS MS program may compete for fellowships that provide tuition and stipend support.

Choose Your Degree Track
Students take core courses and choose one of four emphasis areas:
- Clinical Nutrition
- Molecular & Biochemical Nutrition
- Sports & Wellness
- Community Nutrition

Recent graduates have secured positions in clinical research, sports nutrition research, and wellness counseling. Other graduates have furthered their training in professional school (medical, dental, physician assistant) or academic doctoral programs.

Prospective students should apply online; see pharmns.med.uky.edu for details.

For more information about the Master’s program in Nutritional Sciences, visit pharmns.med.uky.edu or contact:
- Howard Glauert, PhD
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DOCTORAL DEGREE IN NUTRITIONAL SCIENCES

Nutritional scientists utilize the tools of physiology, social sciences, cell and molecular biology, biochemistry, and genetics and genomics to address questions that are critical for understanding the impact of nutrition on human health and disease.

The PhD Program in Nutritional Sciences offers advanced integrative training and research opportunities in laboratories run by nationally known faculty. PhD students fulfill course requirements and work with a faculty mentor and advisory committee in the development and advancement of a novel research project. Primary areas of research and training include nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes, cognitive dysfunction, and cancer. Other specialty areas include nutrition and oxidative stress and nutrition and aging.

All doctoral students receive full tuition support and a stipend in line with National Institutes of Health guidelines.

Recent graduates of the Nutritional Sciences PhD program have rewarding careers in research (Vanderbilt University), industry (Prime Bio, Inc.), government (FDA) and education (UK). Graduates also continue their training in postdoctoral positions (Emory University).

Prospective students may apply directly to the Division of Nutritional Sciences or through the Integrated Biomedical Sciences program at the University of Kentucky College Of Medicine.

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DOCTORAL DEGREE IN PHARMACOLOGY

A degree in pharmacology prepares students for exciting careers in developing treatments for the most debilitating diseases facing humanity. UK College of Medicine offers a breadth of groundbreaking research opportunities. Recent graduates have performed research in treatments for cancer, brain aging, Alzheimer’s disease, and diabetes. Projects may include a search for new targets for drugs that do not exist yet or seek new uses and mechanisms for drugs that are being taken every day.

The PhD program in pharmacology prepares graduates for careers in research, academia, industry, government, education, and countless others. Students fulfill curriculum requirements and work with a faculty member and advisory committee toward the development and progression of an original research project. As mentors, Pharmacology faculty specialize in the following research areas: cancer/cell growth, neuroscience, the cardiovascular system, drug use, and metabolic diseases.

All doctoral students receive full tuition support and a stipend in line with National Institutes of Health guidelines.

Recent graduates have careers in biotechnology business development and industry (Eli Lilly); others have continued their training through postdoctoral fellow positions (University of Pennsylvania, UCLA).

Prospective students may apply to the Integrated Biomedical Sciences (IBS) program in the University of Kentucky College Of Medicine.

For more information about the Doctoral Degree in Pharmacology, visit pharmns.med.uky.edu or contact:
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