

BIOMEDICAL SCIENCES - PHARMACOLOGY - PH.D.

College of Arts and Sciences

Department of Biomedical Sciences
Cunningham Hall
Kent Campus
330-672-2263
www.kent.edu/biomedical

Description

The Ph.D. degree in Biomedical Sciences–Pharmacology provide substantial opportunity for students to conduct research in molecular targeting, drug design and drug delivery in developing new approaches to treat disease. The multidisciplinary program enrolls a select group of graduate students interested in research-based careers in pharmacology, and provides a balance of classroom and laboratory work involving faculty at Kent State University and Northeast Ohio Medical University (NEOMED). Strong research foci exist in the areas of cardiovascular and metabolic diseases, neurodegenerative and blood brain barrier pharmacology. Interdisciplinary approaches to research and theoretical problems are strongly emphasized.

FULLY OFFERED AT:

- Kent Campus

Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate/graduate GPA on a 4.000 point scale for unconditional admission
- Academic preparation adequate to complete graduate coursework in general chemistry, organic chemistry, biochemistry, physics and physiology
- Official transcript(s)
- GRE general test scores
- Goal statement indicating the applicant's interests in pharmacology and career aspirations
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
 - Minimum 600 TOEFL PBT score (paper-based version)
 - Minimum 100 TOEFL IBT score (Internet-based version)
 - Minimum 85 MELAB score
 - Minimum 7.0 IELTS score
 - Minimum 68 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 70440	CELLULAR AND MOLECULAR SIGNALING	3
BMS 70502	MOLECULAR PHARMACOLOGY	4
BMS 70503	PHARMACOLOGY JOURNAL REVIEW	1
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 80199	DISSERTATION I ¹	30
Quantitative Methods and Statistics Elective, choose from the following:		3-5
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
BMS 78638	BIOANTHROPOLOGICAL DATA ANALYSIS II	
BSCI 70103	BIOLOGICAL STATISTICS	
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	
Elective and Research Courses Approved by Dissertation Committee		11-13
Minimum Total Credit Hours for Post-Baccalaureate Students:		90
Minimum Total Credit Hours for Post-Master's Students:		60

¹ Upon completion of course requirements and candidacy exams, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours and thereafter BMS 80299 until all requirements for the degree have been met. As soon after completion of the candidacy examination as possible, the dissertation committee will be established consisting of the guidance committee and an outside discipline member — a graduate faculty member from another department at Kent State University or another program committee of the School of Biomedical Sciences. The student will submit to this committee her/his prospectus for the dissertation. The format of the prospectus will parallel that utilized for National Institutes of Health grant proposals (without biographical, budget and facilities information). The dissertation committee may elect to examine the candidate on the proposal, may accept it as submitted, or may reject it with specific reasons and recommendations for reformulation.

Graduation Requirement

Post-baccalaureate students must complete a minimum 60 credit hours, and post-master's students a minimum 30 credit hours, of coursework prior to dissertation, which includes minimum 21 credit hours that are letter graded (required and elective courses).