

# BIOMEDICAL SCIENCES - NEUROSCIENCES - PH.D.

**College of Arts and Sciences**  
School of Biomedical Sciences  
Cunningham Hall  
Kent Campus  
330-672-2263  
www.kent.edu/biomedical

## Description

The Ph.D. degree in Biomedical Sciences–Neurosciences is an inter-institutional program that allows students to complete research projects under the guidance of a neuroscience faculty member at Kent State University, Cleveland Clinic or Northeast Ohio Medical University (NEOMED). Students complete a common set of core courses that cover fundamental principles in neuroscience, from the cellular/molecular to the systems level. Students also complete elective courses tailored to their chosen subdiscipline. Areas of research focus in the neurosciences include behavioral neuroscience, sensory neuroscience, developmental neuroscience and neurodegenerative diseases.

## 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 GPA on a 4.000 point scale for unconditional admission
- Sufficient undergraduate coursework in chemistry, math, biology, psychology and/or neuroscience
- Academic preparation adequate to complete graduate coursework in neuroscience
- Official transcript(s)
- GRE general test scores
- Goal statement indicating the applicant's interests in neuroscience 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

Applicants for the Ph.D. degree are preferred over the M.S. degree, given applications of roughly equivalent merit. 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 Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 70462	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR	4
BMS 70729	CELLULAR AND MOLECULAR NEUROSCIENCE	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 80199	DISSERTATION I <sup>1</sup>	30
Quantitative Methods and Statistics Electives, 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
<b>Minimum Total Credit Hours for Post-Baccalaureate Students:</b>		90
<b>Minimum Total Credit Hours for Post-Master's Students:</b>		60

- <sup>1</sup> Doctoral candidates, upon admission to candidacy, must register for BMS 80199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for BMS 80199, and thereafter BMS 80299, each semester, including one term each summer, until all requirements for the degree have been met.

## 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).