

# BIOMEDICAL SCIENCES - HUMAN EVOLUTIONARY BIOLOGY - 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 – Human Evolutionary Biology emphasizes a biological approach to research problems focusing on human and non-human anthropology. The program focuses on human anatomy and neuroanatomy, developmental biology, evolutionary genetics, mammalian physiology, paleontology, and experimental archaeology. Many graduates use their training and teaching experience to enter anthropology or corporate teaching positions. Most graduates are also prepared to teach both human anatomy and other cognate fields (neuroanatomy, cell biology, physiology, genetics) in demand at most medical schools

Faculty in the program are drawn from the departments of Anthropology and the Biological Sciences at Kent State and the Department of Anatomy and Neurobiology at the Northeast Ohio Medical University (NEOMED). This inter-departmental and inter-institutional structure provides significant resources to the doctoral candidates, including the Hammon-Todd human and primate skeletal collection, state-of-the-art laboratories for neuroanatomy, anatomy, genetics, paleontology, biomechanics, and experimental archaeology. Additional resources are available to students through the Cleveland Museum of National History, the Cleveland Metroparks zoo, and other local, national, and international collaborative relationships.

Candidates for the Ph.D. are expected to engage, to the extent possible, in other activities that benefit their professional development. The teaching of laboratory and lecture course, as a appropriate is considered valuable and each student should have this experience during their graduate career, this includes those students on non-teaching scholarships or research appointments during their tenure. Students should also seek membership in professional organizations, attend meetings to present research results, and maintain currency in the relevant literature.

## FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Master's degree in anthropology or biological sciences from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- College-level courses in statistics and computer science (Effective Spring 2020 no longer required)
- Official transcript(s)
- GRE scores

- Goal statement
- 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.

- <sup>1</sup> A student with an outstanding academic record may receive a waiver of the master's degree requirement upon completion of 20 credit hours of graduate work and be admitted directly to the Ph.D. degree program.

## 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> <sup>1</sup>		
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
BSCI 70144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 78630	PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY	3
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	5
or BSCI 70103	BIOLOGICAL STATISTICS	
or PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
BMS 78638	BIOANTHROPOLOGICAL DATA ANALYSIS II	3
or PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	
BMS 78691	SEMINAR IN BIOLOGICAL ANTHROPOLOGY	1
BMS 80199	DISSERTATION I <sup>2</sup>	30
Human Gross Anatomy Electives, choose from the following: <sup>3</sup>		5-8
BMS 78610	HUMAN GROSS ANATOMY I	
BMS 78611	HUMAN GROSS ANATOMY II	
Approved Human Gross Anatomy courses		
Electives <sup>4</sup>		4-9
Minimum Total Credit Hours:		60

- <sup>1</sup> Courses equivalent to those in the core may be substituted with the approval of the program committee.

- <sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for BMS 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for BMS 80199 and thereafter BMS 80299, each semester, including summer, until all requirements for the degree have been met.
- <sup>3</sup> May be satisfied by courses taken at NEOMED or any College of Podiatric Medicine. Students should consult with their advisory committee.
- <sup>4</sup> Cognate and elective courses in related departments (e.g., anthropology, biological sciences, chemistry, geology and psychology) will be selected and approved by the student's advisory committee.