BIOMEDICAL SCIENCES
- PHYSIOLOGY
INTERDISCIPLINARY - 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—Physiology Interdisciplinary prepares graduates in areas that include cardiovascular, pulmonary, endocrine and neuroendocrine, reproductive or exercise physiology. In this context, emphasis is placed on an integrative approach for both research and graduate education. As with other program areas, the physiology program takes advantage of the latest molecular and cellular techniques to address questions related to human diseases.

Faculty members are drawn from various departments at Kent State University, the Northeast Ohio Medical University (NEOMED) and the Lerner Research Institute of the Cleveland Clinic. Although graduate work may be completed in any of the various research areas, faculty are listed in two general specializations: (1) environmental and comparative physiology and (2) cardiopulmonary and exercise physiology. Each specialization addresses different subject areas of physiology and each has an associated training faculty. The degree program is research oriented and designed to provide students with a thorough grounding in physiological principles and techniques within several well-defined focus areas.

FULLY OFFERED AT:
- Kent Campus

Admission Requirements
- Master’s degree
- Official transcript(s)
- 3.0 GPA
- GRE scores
- Goal statement
- Three letters of recommendation

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 600 TOEFL score (100 on the Internet-based version), minimum 85 MELAB score, minimum 7.0 IELTS score or minimum 68 PTE Academic score. For more information on international admission, visit the Office of Global Education's admission website. Effective spring 2018.

For more information about graduate admissions, please visit the Graduate Studies 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
[AS-PHD-PSII]

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BMS 80199</td>
<td>DISSERTATION I</td>
</tr>
<tr>
<td>CHEM 50245</td>
<td>BIOCHEMICAL FOUNDATIONS OF MEDICINE</td>
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<tr>
<td>BMS 70449 &amp; BMS 70450</td>
<td>MEDICAL PHYSIOLOGY I and MEDICAL PHYSIOLOGY II</td>
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<td>BSCI 70433 &amp; BSCI 70434</td>
<td>MAMMALIAN PHYSIOLOGY I and MAMMALIAN PHYSIOLOGY II</td>
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<tr>
<td>EXPH 73050 &amp; EXPH 73051 &amp; EXPH 73052</td>
<td>RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY and QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY and ADVANCED RESEARCH DESIGN AND STATISTICS IN EXERCISE PHYSIOLOGY</td>
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<tr>
<td>PSYC 71651</td>
<td>QUANTITATIVE STATISTICAL ANALYSIS I</td>
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<td>Choose from the following:</td>
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<td>3-9</td>
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<tr>
<td>BMS 70729</td>
<td>CELLULAR AND MOLECULAR NEUROSCIENCE</td>
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<tr>
<td>EXPH 75081 &amp; EXPH 75082</td>
<td>ENERGY METABOLISM AND BODY COMPOSITION and CARDIO-RESPIRATORY FUNCTION</td>
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<td>Electives Approved by Advisory Committee</td>
<td>4-13</td>
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<tr>
<td>Minimum Total Credit Hours:</td>
<td>60</td>
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1 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 Dissertation I, and thereafter BMS 80299, each semester, including one term each summer, until all requirements for the degree have been met.

2 Students who select PSYC 71651 and/or BMS 70729 should expect to take additional electives to meet the minimum 60 credit hours for the degree.