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

**Major Requirements**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BMS 80199</td>
<td>DISSERTATION I</td>
<td>30</td>
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<tr>
<td>CHEM 50245</td>
<td>BIOCHEMICAL FOUNDATIONS OF MEDICINE</td>
<td>4</td>
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<td><strong>Choose from the following:</strong></td>
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<tr>
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<td>BMS 70449 &amp; BMS 70450 MEDICAL PHYSIOLOGY I</td>
<td>6-7</td>
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<td></td>
<td>BSCI 70433 &amp; BSCI 70434 MAMMALIAN PHYSIOLOGY I</td>
<td>3-9</td>
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<td><strong>Choose from the following:</strong></td>
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<td>EXPH 73050 &amp; EXPH 73051 &amp; EXPH 73052</td>
<td>4-6</td>
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<td>PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I</td>
<td>4-13</td>
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<td><strong>Minimum Total Credit Hours:</strong></td>
<td>60</td>
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1 Students without a master’s degree may be permitted direct matriculation to the doctoral program following completion of no less than 20 credit hours of graduate coursework (including the core) and with the recommendation of the student’s guidance committee and the school director. Normally, a student is admitted to the master’s program prior to doctoral work, but a student holding only a baccalaureate may be admitted directly into the doctoral program in exceptional cases.

Effective spring 2018.

Electives Approved by Advisory Committee

- BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE
- EXPH 75081 ENERGY METABOLISM AND BODY
- EXPH 75082 COMPOSITION and CARDIO-RESPIRATORY FUNCTION

Minimum Total Credit Hours: 60

1 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.