BIOMEDICAL SCIENCES - PHARMACOLOGY - M.S.

Contact Information
- Director: John Johnson | jjohns72@kent.edu | 330-672-3849
- Chat with an Admissions Counselor

Fully Offered
- Delivery: In person
- Location: Kent Campus

Admission Terms
- Fall

Description
The Master of Science degree in Biomedical Sciences–Pharmacology provides substantial opportunity 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.

The M.S. degree in Biomedical Sciences–Pharmacology is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

Admission Requirements
- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- GRE general test scores (effective for spring 2023 admissions, the GRE will no longer be required)
- Goal statement indicating the applicant's interests in pharmacology and career aspirations
- Academic preparation adequate to complete graduate coursework in general chemistry, organic chemistry, biochemistry, physics and physiology
- 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

For more information about graduate admissions, visit the graduate 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 in fields that reflect their area of training

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ANTH 68637</td>
<td>BIOANTHROPOLOGICAL DATA ANALYSIS I</td>
<td>3-5</td>
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<tr>
<td>or BSCI 60104</td>
<td>BIOLOGICAL STATISTICS</td>
<td></td>
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<tr>
<td>BMS 60440</td>
<td>CELLULAR AND MOLECULAR SIGNALING</td>
<td>3</td>
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<tr>
<td>BMS 60502</td>
<td>MOLECULAR PHARMACOLOGY</td>
<td>4</td>
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<td>BMS 60503</td>
<td>PHARMACOLOGY JOURNAL REVIEW</td>
<td>1</td>
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<tr>
<td>BMS 61000</td>
<td>RESPONSIBLE CONDUCT OF RESEARCH</td>
<td>1</td>
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<tr>
<td>BMS 61001</td>
<td>INTRODUCTION TO BIOMEDICAL SCIENCES</td>
<td>1</td>
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<tr>
<td>Electives</td>
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<td>11-13</td>
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Culminating Requirement
- BMS 60199 THESIS I 6

Minimum Total Credit Hours: 32

Elective courses and research must be approved by the student’s thesis committee.

Graduation Requirements
Minimum 17 credit hours of overall hours must be letter graded (required and elective courses).