PRE-PHARMACY ADVISING PROGRAM

College of Arts and Sciences
104 Bowman Hall
Kent Campus
www.kent.edu/cas

Description
The Pre-Pharmacy Advising Program is a non-degree, pre-professional program that provides students with an opportunity to prepare for further training in pharmacy schools or colleges. Students work closely with their pre-pharmacy faculty advisor to ensure they meet the admissions requirements for the pharmacy school or college of their choice.

The program's curriculum aligns with admission criteria for the Doctor of Pharmacy degree offered by the Northeast Ohio Medical University (NEOMED). As an alternate, students interested in applying to the NEOMED can satisfy all pre-pharmacy requirements by completing the B.S. degree in Chemistry with the Biochemistry concentration. In this degree program, students either complete four years of study at Kent State, or (with careful planning) complete three years of study at Kent State and satisfy the remaining requirements of their B.S. degree with coursework completed at NEOMED.

The College of Arts and Sciences offers advising non-degree programs for students who wish to pursue professional careers in a medical field, including medicine, osteopathy, dentistry, pharmacy and veterinary medicine. The curriculum in these pre-medical programs is designed to prepare students for advanced, professional study by providing a sound basis in biology and chemistry, physics and mathematics.

These advising programs meet the coursework requirements for admission to most medical schools, although admission requirements may differ per school. Students who wish to pursue a graduate medical program would be well advised to check carefully the admissions requirements of the professional schools they wish to enter. Students should also seek advice regularly from their faculty advisors.

Fully Offered At:
• Kent Campus

Admission Requirements
Students must be admitted to a bachelor's degree program in the College of Arts and Sciences to declare this non-degree advising program.

Program Requirements
Pre-Professional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10120</td>
<td>BIOLOGICAL FOUNDATIONS (KBS) (KLAB)</td>
<td>4</td>
</tr>
<tr>
<td>BSCI 30140</td>
<td>CELL BIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 10060</td>
<td>GENERAL CHEMISTRY I (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 10970</td>
<td>HONORS GENERAL CHEMISTRY I (KBS)</td>
<td></td>
</tr>
<tr>
<td>CHEM 10061</td>
<td>GENERAL CHEMISTRY II (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 10971</td>
<td>HONORS GENERAL CHEMISTRY II (KBS)</td>
<td></td>
</tr>
<tr>
<td>CHEM 10062</td>
<td>GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 10063</td>
<td>GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30475</td>
<td>ORGANIC CHEMISTRY LABORATORY I (ELR)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30476</td>
<td>ORGANIC CHEMISTRY LABORATORY II</td>
<td>1</td>
</tr>
<tr>
<td>COMM 15000</td>
<td>INTRODUCTION TO HUMAN COMMUNICATION (KADL)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 22060</td>
<td>PRINCIPLES OF MICROECONOMICS (KSS)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 11011</td>
<td>COLLEGE WRITING I (KCMP)</td>
<td>3</td>
</tr>
<tr>
<td>or HONR 10197</td>
<td>FRESHMAN HONORS COLLOQUIUM I (KCMP)</td>
<td></td>
</tr>
<tr>
<td>ENG 21011</td>
<td>COLLEGE WRITING II (KCMP)</td>
<td>3</td>
</tr>
<tr>
<td>or HONR 10297</td>
<td>FRESHMAN HONORS COLLOQUIUM II (KCMP)</td>
<td></td>
</tr>
<tr>
<td>MATH 12002</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I  (KMCR)</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 12021</td>
<td>CALCULUS FOR LIFE SCIENCES</td>
<td></td>
</tr>
<tr>
<td>MATH 12022</td>
<td>PROBABILITY AND STATISTICS FOR LIFE SCIENCES</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 30011</td>
<td>BASIC PROBABILITY AND STATISTICS</td>
<td></td>
</tr>
<tr>
<td>PHIL 21001</td>
<td>INTRODUCTION TO ETHICS (DIVG) (KHUM)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 11762</td>
<td>GENERAL PSYCHOLOGY (DIVD) (KSS)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 12050</td>
<td>INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 30284</td>
<td>INTRODUCTORY BIOLOGICAL CHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 40248</td>
<td>ADVANCED BIOLOGICAL CHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>CHEM 40245</td>
<td>BIOCHEMICAL FOUNDATIONS OF MEDICINE</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 40248</td>
<td>ADVANCED BIOCHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry Electives, choose from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 20481</td>
<td>BASIC ORGANIC CHEMISTRY I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 20482</td>
<td>BASIC ORGANIC CHEMISTRY II</td>
<td></td>
</tr>
<tr>
<td>CHEM 30481</td>
<td>ORGANIC CHEMISTRY I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 30482</td>
<td>ORGANIC CHEMISTRY II</td>
<td></td>
</tr>
<tr>
<td>Physics Electives, choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 13001</td>
<td>GENERAL COLLEGE PHYSICS I (KBS)</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 13002</td>
<td>and GENERAL COLLEGE PHYSICS II (KBS)</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 13021</td>
<td>and GENERAL COLLEGE PHYSICS</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 13022</td>
<td>and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)</td>
<td></td>
</tr>
<tr>
<td>PHY 23101</td>
<td>GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)</td>
<td>10</td>
</tr>
<tr>
<td>&amp; PHY 23102</td>
<td>and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Credit Hours: 71

1 These economics, mathematics and biological chemistry courses are required prerequisites for admission to the pharmacy program at NEOMED and are recommended for other pharmacy programs.

Pre-Professional Information
• It is imperative that students meet with the pre-pharmacy faculty advisor immediately upon entering Kent State University. This allows students to most efficiently meet the requirements for admission to a number of pharmacy schools. These schools typically require coursework totaling 60-62 credit hours, which can be completed in two years. However, the coursework may vary based on the requirements of different pharmacy schools.
To better prepare for admission to pharmacy programs, additional courses are recommended:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30130</td>
<td>HUMAN PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>BSCI 30171</td>
<td>GENERAL MICROBIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BSCI 30518</td>
<td>VERTEBRATE ANATOMY</td>
<td>4</td>
</tr>
<tr>
<td>ECON 22061</td>
<td>PRINCIPLES OF MACROECONOMICS (KSS)</td>
<td>3</td>
</tr>
</tbody>
</table>