INTEGRATED LIFE SCIENCES - B.S./M.D.

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

Description
The Integrated Life Sciences program allows students to matriculate to The Northeast Ohio Medical University (NEOMED). NEOMED was established in 1973 by an act of the Ohio General Assembly. The college is a consortium of The University of Akron, Kent State University and Youngstown State University. The first class graduated in the spring of 1981.

The college was established to provide new opportunities in medical education. Its purpose is to prepare well-qualified physicians who are oriented to the practice of medicine at the community level, especially primary care and family medicine. The medical training required in the program is combined and integrated with university coursework in order to produce physicians who are well-grounded in the sciences, humanistic in their approach to patients and liberally educated.

This program requires that students be enrolled for 11 months in each of the six academic years. Phase I of the program is spent on one of the three university campuses. Phase I begins with a summer term and continues through two academic years and two additional summer terms. During this period, coursework is focused on studies in the behavioral and basic pre-medical sciences. It also includes orientation to clinical medicine and work in the humanities.

Phase II of the program involves intensive medical training and may be accompanied by summer coursework in the humanities. In the first year of Phase II, students study the basic medical sciences, including anatomy, physiology and microbiology, at the NEOMED Basic Medical Sciences Campus in Rootstown. Students may return to the university campus for the summer term following this year to complete any requirements for the Bachelor of Science degree.

In the remaining three years of Phase II (years four, five and six of the overall program), students develop competence in the clinical aspects of medicine through instruction provided principally at one or more of the community hospitals associated with the program.

Accreditation
NEOMED is fully accredited by the Association of American Medical Colleges and the Council on Medical Education of the American Medical Association.

FULLY OFFERED AT:
• Kent Campus

Admission Requirements
Eligibility for Admission
Current high school students and those students who have completed high school, but have not yet earned college credit after graduating from high school, may be considered for the combined B.S./M.D. program. Students who earn college credits while in high school are eligible.

Evaluation of Progress
Progress through the undergraduate portion of the B.S/M.D. program is measured by academic performance and development of personal maturity appropriate to assumption of professional responsibility. The Committee on Academic and Professional Progress (CAPP) will assess these factors and the student's successful performance on the MCAT in order to recommend students for promotion and formal admission to Phase II of the program.

How to Apply
Questions about the admissions process may be directed to the Integrated Life Sciences office at 330-672-3015.

Cost
During Phase I of the combined B.S./M.D. portion, students pay tuition directly to the Kent State University. To learn more about tuition amounts, please contact the Kent State University Bursar's Office at 330-672-2626.

Program Learning Outcomes
Graduates of this program will be able to:
1. Describe the major functions of the human body and the mechanisms of disease.
2. Recognize the humanistic aspects of medicine.
3. Demonstrate an appreciation of the experiences of their patients, and their own experiences, beyond medical practice.

Program Requirements
Major Requirements
[AS-BS-ILS]

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
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<tr>
<td>Summer 1</td>
<td></td>
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<tr>
<td>PSYC 11762</td>
<td>GENERAL PSYCHOLOGY (DIVD) (KSS)</td>
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<td>SOC 22100</td>
<td>SOCIOLOGICAL ANALYSIS</td>
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<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR</td>
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<td></td>
<td>EXPERIENCE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities courses or electives</td>
<td>6</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td>13</td>
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| Fall 1        |                                            |         |
| BSCI 10120    | BIOLOGICAL FOUNDATIONS (KBS) (KLAB)        | 4       |
| CHEM 10062    | GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)| 1       |
| CHEM 10970    | HONORS GENERAL CHEMISTRY I (KBS)           | 4       |
| HONR 10197    | FRESHMAN HONORS COLLOQUIUM I (KCMP)        | 3       |
| ILS 21091     | INTEGRATED LIFE SCIENCES SEMINAR I         | 2       |
| MATH 12201    | CALCULUS FOR LIFE SCIENCES                 | 4       |
|               | **Total**                                  | 18      |

| Spring 1      |                                            |         |
| BSCI 30140    | CELL BIOLOGY                               | 4       |
| CHEM 10063    | GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)| 1       |
| CHEM 10971    | HONORS GENERAL CHEMISTRY II (KBS)          | 4       |
| HONR 10297    | FRESHMAN HONORS COLLOQUIUM II (KCMP)       | 3       |
|               | **Total**                                  |         |
ILS 21092 INTEGRATED LIFE SCIENCES SEMINAR II (ELR)  2
SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE  3

Credit Hours  17

Second Year

Summer 2

BSCI 30156 ELEMENTS OF GENETICS  3
ILS 42591 MEDICAL SOCIOLOGY RESEARCH SKILLS  2
ILS 42592 MEDICAL SOCIOLOGY PRACTICUM (ELR) (WIC)  3
SOC 44010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE  3
Humanities course or elective  3

Credit Hours  14

Fall 2

BSCI 30171 GENERAL MICROBIOLOGY  4
BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS  2
CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)  1
CHEM 30481 ORGANIC CHEMISTRY I  3
MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES  3

PHY 13001 & PHY 13021 or GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)  5

Credit Hours  18

Spring 2

BSCI 30519 VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY  4
CHEM 30482 ORGANIC CHEMISTRY II  3
CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE  4
ILS 32092 INTEGRATED LIFE SCIENCES SEMINAR IV (ELR)  2

PHY 13002 & PHY 13022 or GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)  5
or PHY 23101 or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)  5

Credit Hours  18

Third Year

Summer 3

ILS 30392 PSYCHOLOGICAL HELPING SKILLS FOR MEDICINE (ELR)  3
ILS 40392 PRACTICUM IN MEDICAL PSYCHOLOGY (ELR)  3
PSYC 40111 ABNORMAL PSYCHOLOGY  3
Humanities course or elective  3

Credit Hours  12

Fall 3

Phase II NEOMED  0

Spring 3

Phase II NEOMED  0

Fourth Year

Summer 4

Humanities course or elective (if not completed earlier)  12

Credit Hours  12

Minimum Total Credit Hours:  122

The Humanities Component (18)
Objective: Within the constraints imposed and the opportunities afforded by summer academic scheduling, to provide disciplined experience in and exposure to the differing modes of thought, perception/perspectives and methodologies of the disciplines usually classified as the "humanities" in arriving at informed critical analyses of the human experience.

Requirement: 18 credit hours of academic credit. At least one of the courses taken to satisfy the humanities must also satisfy the diversity requirement*. The humanities requirements may be fulfilled in the following fashion during the students’ fourth and fifth summers (fourth and sixth summers for students who begin core clerkships in fifth summer, rather than in the fall) in the joint six-year B.S./M.D. program offered by the university in conjunction with the Northeast Ohio Medical University.

I. Fine Arts (3)
Students are to take at least one approved course from the list of Kent Core Fine Arts courses.

II. History, Literature, Philosophy (12)
Students must take two courses (one lower and one upper division) from two of the following three fields:

- History
- Literature
- Philosophy

Students are strongly urged to take an ethics course from Philosophy as parts of the Humanities Requirement.

III. Humanities Elective (3)
Students are to take one additional course in Humanities, Fine Arts or Foreign Language.

IV. Electives (6)
During the time devoted to fulfillment of the humanities requirements of the ILS program, students also will be taking “elective” hours sufficient to complete the 122 credit hours of satisfactorily completed academic credits required for the B.S. degree as offered through the College of Arts and Sciences of Kent State University. Humanities hours in excess of the 18 credit hours minimum of the humanities component requirement will be applied toward these “elective” credit hours.

Diversity (6)
Students must also satisfy the 6 credit hours diversity requirement of the university. At least one of the courses taken to satisfy the humanities must also satisfy the diversity requirement. The 6 credit hours diversity requirement is fulfilled with one domestic diversity course and one global diversity course.