

# KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **12-Aug-19** Curriculum Bulletin \_\_\_\_\_  
Effective Date **Fall 2020** Approved by EPC \_\_\_\_\_

Department \_\_\_\_\_  
College **AS - Arts and Sciences**  
Degree **BS - Bachelor of Science**  
Program Name **Integrated Life Sciences** Program Banner Code **ILS**  
Concentration(s) \_\_\_\_\_ Concentration(s) Banner Code(s) \_\_\_\_\_  
Proposal **Inactivate program**

Description of proposal:

**Inactivate the Bachelor of Science in Integrated Life Sciences (BS/MD ILS). This program was taught in collaboration with the Northeast Ohio Medical University (NEOMED) which no longer admits students into medical school through ILS. Admissions were previously suspended.**

Does proposed revision change program's total credit hours?  Yes  No  
Current total credit hours: **122** Proposed total credit hours **0**

Describe impact on other programs, policies or procedures (e.g., duplication issues; enrollment and staffing considerations; need; audience; prerequisites; teacher education licensure):

**The departments supporting the program have all been informed and the courses have not been taught for several years. All courses in the ILS prefix will be inactivated.**

Units consulted (other departments, programs or campuses affected by this proposal):  
**None**

## REQUIRED ENDORSEMENTS

\_\_\_\_\_  
Department Chair / School Director \_\_\_\_\_ / /

\_\_\_\_\_  
Campus Dean (for Regional Campuses proposals) \_\_\_\_\_ / /

*Nancy Ann Haley*  
College Dean (or designee) \_\_\_\_\_ **8, 30, 2019**

\_\_\_\_\_  
Dean of Graduate Studies (for graduate proposals) \_\_\_\_\_ / /

\_\_\_\_\_  
Provost (or designee) \_\_\_\_\_ / /

*AS-ILS  
16*

## **Proposal Summary**

### **Inactivate the Bachelor of Science in Integrated Life Sciences Degree Program [BS/MD ILS]**

#### **Description of Action, Including Intended Effect**

For several decades Kent State University and a number of other northeast Ohio universities collaborated the Northeast Ohio Medical University to prepare undergraduate students for admission to medical school. Integrated Life Sciences was the Kent State program. Students were admitted to Kent State, followed the curriculum, and with appropriate GPAs and MCAT scores, were guaranteed a seat at NEOMED.

Several years ago NEOMED decided to stop this practice and now wants to admit students to medical school upon completion of a traditional bachelor's degree. Students will only be considered after completing two academic years in a major while completing several critical pre-med courses.

As this new approach was adopted, the College of Arts and Sciences formally suspended admission to the ILS program. As the previously admitted students have largely completed the program it is time to inactivate it.

#### **Impact on Other Programs, Course Offerings, Students, Faculty, Staff (e.g., duplication issues)**

Departments that had previously offered courses to support the ILS program and its students have ceased offering the required courses. There will little impact on those units.

#### **Fiscal, Enrollment, Facilities and Staffing Considerations**

As students have completed the program, departments have had their faculty teach other courses in their curriculum.

#### **Evidence of Need and Sustainability if Establishing**

N/A

#### **Provisions for Phase-Out if Inactivating**

The remaining students were made aware of the cessation of the program and have worked towards completion. Any students who might have remaining coursework to complete will be directed to other appropriate substitutions.

#### **Timetable and Actions Required:**

Fall 2019	College of Arts and Sciences Curriculum Committee Approval
Fall 2019	EPC and Faculty Senate Approval
Fall 2019	Board of Trustees and ODHE Approval
Fall 2020	Effective Date

## PROGRAM INACTIVATION FORM

**Date of submission:** August 12, 2019

**Name of institution:** Kent State University

**Title of program to be inactivated:** Integrated Life Sciences major, Bachelor of Science degree

**Date that the inactivation received final approval from the appropriate institutional committee:** Board of Trustees approval *date to come*

**Primary institutional contact for the notification:**

**Name:** Therese E. Tillett  
**Title:** Associate Vice President, Curriculum Planning and Administration  
 Office of the Provost  
**Phone:** 330-672-8558  
**E-mail:** ttillet1@kent.edu

**Educator Preparation Programs:**

Leads to licensure:  Yes  No  
 Leads to endorsement:  Yes  No

**1. Provide the rationale for the inactivation of the program:**

Kent State's B.S. degree in Integrated Life Sciences was established in 1973 as part of a collaboration among universities and the newly chartered Northeast Ohio Medical University (NEOMED). The objective with the degree program was to provide a seamless, six-year pathway from a bachelor's degree to the M.D. degree. Students admitted to the highly selective Integrated Life Sciences major were guaranteed admission to NEOMED by following the approved curriculum and earning the requisite GPA and MCAT scores.

NEOMED has made the decision to discontinue this model for admission, opting to admit students upon completion of a traditional bachelor's degree and the prerequisite science courses. Kent State offers several undergraduate majors with a pre-med concentration, including biology, chemistry, physics, psychology and public health; as well as a pre-med advising program for any student interested in pursuing medical training after earning their bachelor's degree.

In addition, Kent State has partnered with NEOMED to create an Early Assurance Program that allows eligible, second-year Kent State students to reserve a seat at NEOMED after completing their undergraduate degree.

**2. Indicate number of students currently enrolled in the program:**

The last cohort admitted to the Integrated Life Science major was in fall 2016. From that cohort, 15 students have graduated, and the remaining nine students are actively enrolled and on track to graduate.

**3. Describe how the inactivation will affect students currently in the program, and explain plans for notifying students and assisting them in the completion of their degrees:**

Students admitted in the last cohort were made aware of the phase-out of the program. The remaining nine students are finishing the program in an optional third year. Two students are in progress to earn their degree in December 2019; four are in progress to earn their degree in May 2020; and three will be able to graduate in August 2020 with summer courses.

All major (ILS) courses will be inactivated along with the major. The nine students have completed all ILS coursework. Any courses the students have not completed yet will continue to be offered by Kent State; therefore, these students will be able to earn their degree after the inactivation.

**4. Will there be a loss of faculty or staff positions because of the inactivation of the program? If so, indicate when the faculty or staff members were or will be informed.**

The majority of courses taught in the program are required in other degree programs (e.g., biology, chemistry, mathematics, sociology, psychology, physics) and will continue to be taught by faculty in their respective departments.

Faculty teaching ILS courses came from the departments of Sociology, Biological Sciences, Psychological Sciences and Chemistry and Biochemistry. These faculty and supporting staff have transitioned to assist in Kent State's pre-health professional programs.

**5. Describe the plan for communicating the inactivation of the program, including changes to the college catalog and college website and communications with advisors, admissions officers and financial aid officers:**

Once the inactivation is approved by the Kent State University Board of Trustees and the Ohio Department of Higher Education, all necessary changes will be made to university websites and materials. Further written concurrent communications will be sent out to key staff in student advising, admission, registrar and financial aid. Currently, the program is listed as suspended in the online University Catalog.

**6. Indicate the final date that the program will be operational:**

The program will be inactivated for fall 2020.

Respectfully,

Melody J. Tankersley, Ph.D.  
Senior Vice President for Academic Affairs and Provost (Interim)  
Kent State University

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

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

## Description

**Admission to the Bachelor of Science degree in Integrated Life Sciences has been suspended temporarily as of fall 2019.**

The Bachelor of Science degree in Integrated Life Sciences allows students to matriculate to medical degree studies at the Northeast Ohio Medical University (NEOMED). Students in the program are enrolled for 11 months in each of the six academic years. Phase I of the program is spent on the Kent Campus and 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 Kent Campus for the summer term following this year to complete any requirements for the B.S. 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.

### Fully Offered At:

Kent Campus

## Accreditation

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

## Admission Requirements

Admission to the Integrated Life Sciences major is selective. 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. For more information on admissions, visit the admissions website for new freshmen.

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.

### 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 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. 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. 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

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 30519	VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY	4
BSCI 40242	SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS	2
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	4
CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	4
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
HONR 10197	FRESHMAN HONORS COLLOQUIUM I (KCMP)	3
HONR 10297	FRESHMAN HONORS COLLOQUIUM II (KCMP)	3
ILS 21091	INTEGRATED LIFE SCIENCES SEMINAR I	2
ILS 21092	INTEGRATED LIFE SCIENCES SEMINAR II (ELR)	2
ILS 30392	PSYCHOLOGICAL HELPING SKILLS FOR MEDICINE (ELR)	3
ILS 32092	INTEGRATED LIFE SCIENCES SEMINAR IV (ELR)	2
ILS 40392	PRACTICUM IN MEDICAL PSYCHOLOGY (ELR)	3
ILS 42591	MEDICAL SOCIOLOGY RESEARCH SKILLS	2
ILS 42592	MEDICAL SOCIOLOGY PRACTICUM (ELR) (WIC)	3
MATH 12021	CALCULUS FOR LIFE SCIENCES	4
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	5
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	

AS-ILS  
20



PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	5
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
SOC 22100	SOCIOLOGICAL ANALYSIS	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3
SOC 44010	SOCIOLOGICAL PERSPECTIVES IN MEDICINE	3
Fine Arts Elective		3
History, Literature, Philosophy Electives		12
Humanities Elective		3
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Electives (total credit hours depends on earning 122 credit hours)		6
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)

**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.

**Graduation Requirements**

<b>Minimum Major GPA</b>	<b>Minimum Overall GPA</b>
2.000	2.000

- All courses taken from the list of major program requirements are used in the calculation of the major GPA.

**Roadmap**

**First Year**

<b>Summer 1</b>		<b>Credits</b>
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 22100	SOCIOLOGICAL ANALYSIS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Humanities or Electives		6
	<b>Credit Hours</b>	<b>13</b>

**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 12021	CALCULUS FOR LIFE SCIENCES	4
	<b>Credit Hours</b>	<b>18</b>

**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
ILS 21092	INTEGRATED LIFE SCIENCES SEMINAR II (ELR)	2
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3
	<b>Credit Hours</b>	<b>17</b>

**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 or Elective		3
	<b>Credit Hours</b>	<b>14</b>

**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

AS-ILS  
21

PHY 13001 & PHY 13021 or PHY 23101	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours		18
<b>Spring 2</b>		
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 PHY 23102	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) or GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Credit Hours		18
<b>Third Year</b>		
<b>Summer 3</b>		
ILS 30392	PSYCHOLOGICAL HELPING SKILLS FOR MEDICINE (ELR)	3
ILS 40392	PRACTICUM IN MEDICAL PSYCHOLOGY (ELR)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
Humanities or Elective		3
Credit Hours		12
<b>Fall 3</b>		
Phase II NEOMED		
Credit Hours		0
<b>Spring 3</b>		
Phase II NEOMED		
Credit Hours		0
<b>Fourth Year</b>		
<b>Summer 4</b>		
Humanities or Electives (if not completed earlier)		12
Credit Hours		12
Minimum Total Credit Hours:		122

AS-ILS  
22