

MEDICAL TECHNOLOGY - B.S.

College of Arts and Sciences
 Department of Biological Sciences
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Description

The Bachelor of Science degree in Medical Technology allows students to combine three years of study at Kent State with 12 months of professional training at an approved hospital. Medical technologists are trained to perform complex chemical, microscopic and microbiological procedures. Graduates are eligible to sit for the Board of Registry of the American Society of Clinical Pathologists Exam.

Fully Offered At:

- Kent Campus

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Freshman Students on the Kent Campus: The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

Freshman Students on the Regional Campuses: Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

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 score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

Transfer, Transitioning and Former Students: For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
BSCI 30050	HUMAN GENETICS	3
BSCI 30140	CELL BIOLOGY	4
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40174	IMMUNOLOGY	3
BSCI 40581	ANIMAL PARASITOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1

CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) (min C grade) ¹	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
CLS 49010	CLINICAL MICROBIOLOGY:THEORY ²	4
CLS 49011	CLINICAL MICROBIOLOGY: APPLICATIONS	4
CLS 49012	CLINICAL IMMUNOLOGY:THEORY	1
CLS 49013	CLINICAL IMMUNOLOGY: APPLICATIONS	1
CLS 49014	CLINICAL MYCOLOGY: THEORY AND APPLICATIONS	1
CLS 49015	CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS	1
CLS 49020	CLINICAL CHEMISTRY:THEORY	4
CLS 49021	CLINICAL CHEMISTRY: APPLICATIONS	3
CLS 49022	URINALYSIS:THEORY	1
CLS 49023	URINALYSIS:APPLICATIONS	1
CLS 49030	IMMUNOHEMATOLOGY:THEORY	2
CLS 49031	IMMUNOHEMATOLOGY:APPLICATIONS	2
CLS 49032	COAGULATION: THEORY AND APPLICATIONS	1
CLS 49033	CLINICAL HEMATOLOGY:THEORY	2
CLS 49034	CLINICAL HEMATOLOGY: APPLICATIONS	2
CLS 49040	TOPICS IN LABORATORY MANAGEMENT	1
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	3-4
or DSCI 15310	COMPUTATIONAL THINKING AND PROGRAMMING	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 30011	BASIC PROBABILITY AND STATISTICS	3

Additional Requirements (courses do not count in major GPA)

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional (courses must be from Social Sciences category)		2
General Elective (total credit hours depends on earning 121 credit hours, including 42 upper-division credit hours)		1

Minimum Total Credit Hours: 121

¹ A minimum C grade must be earned to fulfill the writing-intensive requirement.

² Students who complete the required in-hospital clinical experience fulfill the experiential learning requirement.

on multiple criteria. Typically, clinical affiliates will interview students with a minimum 3.000 major GPA and hospital experience.

- Students declared in the Medical Technology major are not required to meet the College of Arts and Sciences' foreign language requirement.

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 40020	BIOLOGY OF AGING	3

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students are expected to consult with a medical technology advisor before registering for courses each semester.
- The fourth year clinical training is NOT guaranteed, but it is required to graduate with this major. Acceptance to clinical training is at the discretion of the clinical affiliates, is highly competitive and is based

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
Semester Two		
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	Kent Core Requirement	3
	Credit Hours	15
Semester Three		
!	BSCI 30140 CELL BIOLOGY	4
!	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
Semester Four		
!	BSCI 30130 HUMAN PHYSIOLOGY	3
!	BSCI 30050 HUMAN GENETICS	3
!	CHEM 30301 INORGANIC CHEMISTRY I	2
	MATH 11022 TRIGONOMETRY (KMCR)	3
	Kent Core Requirement	3
	General Elective	0-1
	Credit Hours	15
Semester Five		
!	BSCI 30171 GENERAL MICROBIOLOGY	4
!	BSCI 40581 ANIMAL PARASITOLOGY	4
!	CHEM 30105 ANALYTICAL CHEMISTRY I	3
!	CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
	MATH 30011 BASIC PROBABILITY AND STATISTICS	3
	Credit Hours	15
Semester Six		
!	BSCI 40174 IMMUNOLOGY	3
!	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES or DSCI 15310 or COMPUTATIONAL THINKING AND PROGRAMMING	3-4
	Kent Core Requirement	3
	Kent Core Requirement	2-3
	Credit Hours	15
Semester Seven		
!	CLS 49010 CLINICAL MICROBIOLOGY:THEORY	4
!	CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS	4

!	CLS 49012 CLINICAL IMMUNOLOGY:THEORY	1
!	CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS	1
!	CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS	1
!	CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS	1
!	CLS 49020 CLINICAL CHEMISTRY:THEORY	4
	Credit Hours	16
Semester Eight		
!	CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS	3
!	CLS 49022 URINALYSIS:THEORY	1
!	CLS 49023 URINALYSIS:APPLICATIONS	1
!	CLS 49030 IMMUNOHEMATOLOGY:THEORY	2
!	CLS 49031 IMMUNOHEMATOLOGY:APPLICATIONS	2
!	CLS 49032 COAGULATION: THEORY AND APPLICATIONS	1
!	CLS 49033 CLINICAL HEMATOLOGY:THEORY	2
!	CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS	2
!	CLS 49040 TOPICS IN LABORATORY MANAGEMENT	1
	Credit Hours	15
	Minimum Total Credit Hours:	121