

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

Critical	Course Subject and Title	Credit Hours	Min. Grade	Major GPA	Attribute	Notes
Semester One [14 Credits]						
!	BSCI 10120 Biological Foundations	4		■	KBS	
!	CHEM 10060 General Chemistry I	4		■	KBS	
!	CHEM 10062 General Chemistry I Laboratory	1		■	KBS	
	MATH 12002 Analytic Geometry and Calculus I or MATH 12021 Calculus for Life Sciences	4 - 5		■	KMC	
	US 10097 Destination Kent State: First Year Experience ¹	1				
Semester Two [15 Credits]						
	BSCI 30140 Cell Biology	4		■		
	BTEC 10210 Introduction to Biotechnology	3		■		
	CHEM 10061 General Chemistry II	4		■	KBS	
	CHEM 10063 General Chemistry II Laboratory	1		■	KBS	
	Kent Core Requirement	3				
Semester Three [18 Credits]						
	BSCI 30171 General Microbiology	4		■		
	CHEM 20481 Basic Organic Chemistry I	4		■		
	PHIL 21001 Introduction to Ethics	3			DG/KHU	
	Foreign Language ²	4 - 5				
	Kent Core Requirement	3				
Semester Four [16 Credits]						
	BSCI 30156 Elements of Genetics	3		■		
	CS 10051 Introduction to Computer Science	4			KMC	
	PHY 13001 General College Physics I	4		■	KBS	
	PHY 13021 General College Physics Laboratory I	1		■	KBS	
	Foreign Language ²	4 - 5				
Semester Five [14 Credits]						
	BSCI 40158 Molecular Biology	3		■		
	BUS 10123 Exploring Business	3		■		
	MATH 30011 Basic Probability and Statistics or MATH 12022 Probability and Statistics for Life Sciences	3		■		
	Kent Core Requirement	3				
	General Electives ³	2				
Semester Six [16 Credits]						
	CHEM 30284 Introductory Biological Chemistry	4		■		
	PHIL 30015 Medicine and Morality	3		■		
	Kent Core Requirement	3				
	Kent Core Requirement	3				
	Approved Electives ⁴	3		■		
Semester Summer III [2 Credits]						
	BTEC 40192 Internship in Biotechnology (2-9) or BTEC 40196 Individual Investigation (2-9)	2 - 6		■	ELR	
Semester Seven [16 Credits]						
	BTEC 40191 Seminar: Recent Developments in Biotechnology	1		■		
	BTEC 40210 Case Studies in Biotechnology	3		■		
	BTEC 40220 Bioinformatics	3		■		
	CHEM 40248 Advanced Biological Chemistry	3		■		
	Kent Core Requirement	3				
	Approved Electives ⁴	3		■		
Semester Eight [9 Credits]						
	BTEC 40192 Internship in Biotechnology (2-9) or BTEC 40196 Individual Investigation in Biotechnology (2-9)	4 - 6		■	ELR	
	CHEM 40251 Advanced Biological Chemistry Laboratory	2	C ⁵	■	WIC	
	Approved Electives ⁴	3		■		

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours 30000 – 40000 level course	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	42	36	2.000	2.000

1. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus and dual-enrollment) or students age 21+ at time of admission.
2. Fulfills College General Requirement
3. Credits required depend on meeting minimum 120 credit hours and minimum 42 upper-division credit hours.

4. Approved Electives (9 credits)

Choose from the following:

BSCI 30518 Vertebrate Anatomy (4)	BSCI 40143 Eukaryotic Cell Biology (3)
BSCI 40164 Molecular Systematics and Phylogenetics (4)	BSCI 40174 Immunology (3)
CHEM 30105 Analytical Chemistry I (3)	CHEM 30107 Analytical Chemistry Laboratory I (1)
CHEM 30301 Inorganic Chemistry I (2)	CHEM 30475 Organic Chemistry Laboratory I (1) (ELR)
CHEM 40567 Basic Concepts of Physical Chemistry (4)	PSYC 41363 Biopsychology (3)
Upper-division courses approved by program director (1 - 9)	

5. A minimum C (2.000) grade must be earned to fulfill the writing-intensive requirement.

University Requirements: Bachelor's degree-seeking students must meet Kent Core (general education requirements), diversity, writing-intensive and experiential learning requirements. For more information about these requirements, please read the following sections in the University Catalog: Kent Core – www.kent.edu/catalog/kent-core; Diversity Course Requirement – www.kent.edu/catalog/diversity; Writing-Intensive Course Requirement – www.kent.edu/catalog/wic; Experiential Learning Requirement – www.kent.edu/catalog/elr.

Attribute Legend: **DD** Diversity–Domestic; **DG** Diversity–Global; **ELR** Experiential Learning; **KAD** Kent Core Additional; **KBS** Kent Core Basic Sciences; **KCM** Kent Core Composition; **KFA** Kent Core Fine Arts; **KHU** Kent Core Humanities; **KMC** Kent Core Mathematics and Critical Reasoning; **KSS** Kent Core Social Sciences; **WIC** Writing Intensive