

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	Upper Div.	Min. Grade	Major GPA	Type	Term Taken
<b>Semester One [16 Credits]</b>							
<b>Students not placed into MATH 12002 (required in semester 3) should take MATH 11010 (Kent Core course) in first year of study</b>							
!	BSCI 10110 Biological Diversity	4			■	KBS	
!	CHEM 10060 General Chemistry I	4			■	KBS	
!	CHEM 10062 General Chemistry I Laboratory	1			■	KBS	
	US 10097 Destination Kent State: First Year Experience <sup>1</sup>	1					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Two [15 Credits]</b>							
!	BSCI 10120 Biological Foundations	4			■	KBS	
!	CHEM 10061 General Chemistry II	4			■	KBS	
!	CHEM 10063 General Chemistry II Laboratory	1			■	KBS	
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Three [14 Credits]</b>							
!	BSCI 30156 Elements of Genetics	3	■		■		
!	CHEM 20481 Basic Organic Chemistry I or CHEM 30481 Organic Chemistry I	3-4			■		
!	Organic Chemistry Option <sup>2</sup>	0 - 1			■		
!	MATH 12002 Analytic Geometry and Calculus I	5			■	KMC	
	Kent Core Requirement	3					
<b>Semester Four [13 Credits]</b>							
!	Organic Chemistry Option <sup>2</sup>	0 - 3			■		
!	MATH 12003 Analytic Geometry and Calculus II or MATH 30011 Basic Probability and Statistics	3-5			■		
	Zoology Electives <sup>3</sup>	7 - 8	■		■		
	Kent Core Requirement	3					
<b>Semester Five [16 Credits]</b>							
	BSCI 40600 Writing in the Biological Sciences <sup>4</sup>	1	■	C	■	WIC	
	Foreign Language <sup>5</sup>	4 - 5					
	Zoology Electives <sup>3</sup>	4	■		■		
	BSCI and/or CHEM and/or PHY electives <sup>6</sup>	7 - 8			■		
<b>Semester Six [16 Credits]</b>							
	Foreign Language <sup>5</sup>	4 - 5					
	Kent Core Requirement	3					
	BSCI and/or CHEM and/or PHY electives <sup>6</sup>	9			■		
<b>Semester Seven [13 Credits]</b>							
	BSCI 40163 Evolution	3	■		■		
	BSCI and/or CHEM and/or PHY electives <sup>6</sup>	7			■		
	General Elective <sup>7</sup>	3					
<b>Semester Eight [16 Credits]</b>							
	BSCI and/or CHEM and/or PHY electives <sup>6</sup>	3			■		
	General Elective <sup>7</sup>	13					

**Graduation Requirements Summary**

Minimum Total Hours	Minimum Upper-Division Hours	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 or students age 21+ at time of admission.

2. Organic Chemistry Option (1-3 credits) – If CHEM 30475 is chosen, must be taken in Semester Three. If CHEM 20482 or CHEM 30482 is chosen, must be taken in Semester Four.

<b>Choose from the following:</b>	
CHEM 20482 Basic Organic Chemistry II (2)	CHEM 30475 Organic Chemistry Laboratory I (1)
CHEM 30482 Organic Chemistry II (3)	
3. Zoology Electives (11-12 credits)	

<b>Choose from the following:</b>	
BSCI 30140 Cell Biology (4)	BSCI 30171 General Microbiology (4)
BSCI 30360 General Ecology (4)	BSCI 30518 Vertebrate Anatomy (4)
BSCI 30519 Vertebrate Embryology and Developmental Anatomy (4)	BSCI 30560 Invertebrate Zoology (4)
BSCI 30580 Entomology (4)	BSCI 40430 Animal Physiology (3)
BSCI 40433 Mammalian Physiology I (3)	BSCI 40434 Mammalian Physiology II (3)
BSCI 40515 Animal Behavior (3)	BSCI 40556 Vertebrate Zoology (4)
BSCI 40581 Animal Parasitology (4)	

4. A minimum C (2.000) grade must be earned in BSCI 40600 to fulfill the writing-intensive requirement.
5. Fulfills College General Requirement.
6. BSCI and/or CHEM and/or PHY Electives (26-27 credits)

<b>Choose from the following:</b>	
BSCI Biology courses * (in consultation with advisor) (11-26)	PHY 13001 General College Physics I (4) <b>and</b>
CHEM 30475 Organic Chemistry Laboratory I (1)	PHY 13021 General College Physics Laboratory I (1)
CHEM 30476 Organic Chemistry Laboratory II (1)	<b>or</b> PHY 23101 General University Physics I (5)
CHEM 20482 Basic Organic Chemistry II (2)	PHY 13002 General College Physics II (4) <b>and</b>
<b>or</b> CHEM 30482 Organic Chemistry II (3)	PHY 13022 General College Physics Laboratory II (1)
	<b>or</b> PHY 23102 General University Physics II (5)
<b>*Must choose one of the following (maximum 6 credit hours of any combination allowed)** :</b>	
BSCI 30005 Career Pathways in Biology (1)	BSCI 40192 Internship in Biological Sciences (3-4) [ELR]
BSCI 40099 Senior Honors Thesis (1-3) [ELR]	BSCI 40196 Individual Investigation (1-3)[ELR]
BSCI 40191 Senior Seminar (1)	

\*\*no more than 4 credit hours may be S/U graded

7. Number of upper division credits required depends on meeting minimum 120 credit hours and minimum 42 upper-division credit hours

### University Requirements Summary

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	<b>Kent Core I. Composition</b> Enrollment based on placement test	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
KMC	<b>Kent Core II. Mathematics and Critical Reasoning</b> Enrollment based on placement test	MATH 12002	fulfilled
KHU	<b>Kent Core III. Humanities</b> Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFA	<b>Kent Core IV. Fine Arts</b> Minimum one course from the fine arts; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFH	<b>Kent Core V. Humanities or Fine Arts</b> One additional course from either the humanities or fine arts category, may fulfill diversity requirement.	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KSS	<b>Kent Core VI. Social Sciences</b> Must be selected from two curricular areas; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
KBS	<b>Kent Core VII. Basic Sciences</b> Must include one laboratory	BSCI 10110, BSCI 10120	fulfilled
KAD	<b>Kent Core VIII. Additional</b> May fulfill diversity requirement	CHEM 10060, CHEM 10061, CHEM 10062, CHEM 10063	fulfilled
DD	<b>Domestic Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
DG	<b>Global Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
ELR	<b>Experiential Learning Requirement</b> Either course or non-course experience approved by the appropriate faculty member	visit <a href="http://www.kent.edu/catalog/elr">www.kent.edu/catalog/elr</a>	one course or activity
WIC	<b>Writing-Intensive Course Requirement</b> Minimum C (2.000) grade	BSCI 40600	fulfilled