

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
<b>Semester One [16 Credits]</b>						
<b>Students not placed into MATH 12002 (required in semester 3) should take MATH 11010 or 12022 in first year of study</b>						
!	<b>BSCI 10110 Biological Diversity</b>	4		■	KBS	
!	<b>CHEM 10060 General Chemistry I</b>	4		■	KBS	
!	<b>CHEM 10062 General Chemistry I Laboratory</b>	1		■	KBS	
	UC 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>						
!	<b>BSCI 10120 Biological Foundations</b>	4		■	KBS	
!	<b>CHEM 10061 General Chemistry II</b>	4		■	KBS	
!	<b>CHEM 10063 General Chemistry II Laboratory</b>	1		■	KBS	
	Kent Core Requirement	3				
	Kent Core Requirement	3				
<b>Semester Three [15 Credits]</b>						
!	<b>BSCI 30360 General Ecology</b>	4		■		
!	<b>MATH 12002 Analytic Geometry and Calculus I</b>	5		■	KMC	
	Environmental Policy and Management Sequence <sup>2</sup>	3		■		
	Kent Core Requirement	3				
<b>Semester Four [16 Credits]</b>						
!	<b>BSCI 30156 Elements of Genetics</b>	3		■		
	BSCI 40375 Environmental Biology and Management	4		■		
	GEOG 49070 Geographic Information Science	4		■		
	Environmental Policy and Management Sequence <sup>2</sup>	3		■		
	General Electives <sup>3</sup>	2				
<b>Semester Five [14 Credits]</b>						
	GEOL 11040 How the Earth Works	3		■	KBS	
	GEOL 11041 How the Earth Works Laboratory	1		■	KBS	
	GEOG 39002 Statistical Methods in Geography or GEOG 42035 Scientific Methods in Geology	3		■		
	Foreign Language <sup>4</sup>	4 - 5				
	Kent Core Requirement	3				
<b>Semester Six [15 Credits]</b>						
	BSCI 40600 Writing in the Biological Sciences	1	C <sup>5</sup>	■	WIC	
	Foreign Language <sup>4</sup>	4 - 5				
	Geography Electives <sup>6</sup>	3		■		
	Kent Core Requirement	3				
	Environmental Policy and Management Concentration Electives <sup>7</sup>	4		■		
<b>Semester Seven [15 Credits]</b>						
!	<b>BSCI 40163 Evolution</b>	3		■		
	Geography Electives <sup>6</sup>	3		■		
	Geology Electives <sup>8</sup>	3 - 4		■		
	Environmental Policy and Management Concentration Electives <sup>7</sup>	6		■		
<b>Semester Eight [14 Credits]</b>						
	Geology Electives <sup>8</sup>	3 - 4		■		
	Environmental Policy and Management Concentration Electives <sup>7</sup>	6		■		
	General Electives <sup>3</sup>	5				

### 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. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.

2. Environmental Policy and Management Sequence

<b>Choose one sequence:</b>	
Sequence 1:	Sequence 3:
ECON 32084 Economics of the Environment (3)	RPTM 26081 Principles of Outdoor Recreation (3)
ECON 22060 Principles of Microeconomics (3) (KSS)	RPTM 36082 Interpretation of Natural and Cultural Resources (3) or RPTM 36083 Environmental Education and Conservation (3)
Sequence 2:	
POL 10300 Public Policy (3)	
POL 40440 U.S. Environmental Politics and Policies (3)	

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

4. Fulfills College General Requirement.

5. A minimum C (2.000) grade must be earned in BSCI 40600 to fulfill the writing-intensive requirement.

6. Geography electives (6 Credits)

<b>Choose from the following: Geography Electives</b>	
GEOG 31062 Fundamentals of Meteorology (3)	GEOG 31064 Principles of Climatology (3)
GEOG 41052 Glaciers and Glaciation (3)	GEOG 41066 Climate Change and its Impact (3)
GEOG 41073 Conservation of Natural Resources (3)	GEOG 41074 Resource Geography (3)
GEOG 41082 Geography of Soils (3)	GEOG 49080 Advanced Geographic Information Science (3)
GEOG 49230 Remote Sensing (3)	Any other upper-division GEOG course with BSCI advisor approval (3)

7. Environmental Policy and Management Concentration electives (16 Credits)

<b>Choose from the following: Concentration Electives</b>	
Biological Sciences (BSCI) upper-division courses* (10 - 15)	<b>Must</b> choose from the following (but no more than 6 credit hours of any combination allowed): (1 - 6) **
May choose from Non-BSCI electives (0-6):	
CHEM 20481 Basic Organic Chemistry I (4)	
CHEM 20482 Basic Organic Chemistry II (2)	
CHEM 30475 Organic Chemistry Laboratory I (1) [ELR]	
	BSCI 30105 Career Pathways in Biology (1)
	BSCI 40199 Senior Honors Thesis (1 - 10) [ELR]
	BSCI 40191 Senior Seminar (1)
	BSCI 40192 Internship in Biological Sciences (3 - 12) [ELR]
	BSCI 40196 Individual Investigation (1 - 3) [ELR]

\*Select a combination of upper-division BSCI other than those used to meet the major or concentration requirements. Students should consult with their advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

\*\* No more than 4 credit hours maybe S/U graded

8. Geology electives (6 Credits)

<b>Choose from the following: Geology Electives</b>	
GEOL 32066 Geomorphology (4)	GEOL 41077 Geology of the National Parks (3)
GEOL 42067 Introductory Hydrogeology (3)	GEOL 42069 Hydrogeochemistry (3)
GEOL 42074 Environmental Core and Well Logging (3)	GEOL 42078 Engineering Geology (4)
GEOL 43042 Environmental Geochemistry (3)	GEOL 43044 Environmental Isotopes (3)
GEOL 44074 Paleocyanography (3)	Any other upper-division Geology course with BSCI advisor approval (3 - 4)

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

BSCI 10001 Human Biology (3)	BSCI 20022 Basic Microbiology Laboratory (1)
BSCI 10002 Life on Planet Earth (3)	BSCI 21010 Anatomy and Physiology I (4)
BSCI 10003 Laboratory Experience in Biology (1)	BSCI 21020 Anatomy and Physiology II (4)
BSCI 10005 Anatomy for Veterinary Technicians (5)	BSCI 26002 Ecological Principles of Pest Management (3)
BSCI 11010 Foundational Anatomy and Physiology I (3)	BSCI 26003 Plant Identification and Selection I (3)
BSCI 11020 Foundational Anatomy and Physiology II (3)	BSCI 26004 Plant Identification and Selection II (3)
BSCI 16001 Horticultural Botany (3)	BSCI 30050 Human Genetics (3)
BSCI 20019 Biological Structure and Function (4)	BSCI 40020 Biology of Aging (3)
BSCI 20021 Basic Microbiology (3)	

**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](http://www.kent.edu/catalog/kent-core); Diversity Course Requirement – [www.kent.edu/catalog/diversity](http://www.kent.edu/catalog/diversity); Writing-Intensive Course Requirement – [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic); Experiential Learning Requirement – [www.kent.edu/catalog/elr](http://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