



Roadmap: Environmental and Conservation Biology - Conservation Biology - Bachelor of Science

AS-BS-ECB-CBIO
College of Arts and Sciences
Department of Biological Sciences
Catalog year: 2014-2015

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
Semester One [15 Credits]							
Students not placed into MATH 12002 (required in semester 4) should take MATH 11010 or 12022 in first year of study							
!	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 ¹	1					
	Kent Core Requirement	3					
	General Elective ²	2					
Semester Two [15 Credits]							
!	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					
Semester Three [15 Credits]							
!	BSCI 30360 General Ecology	4	■		■		
	CHEM 20481 Basic Organic Chemistry I	4			■		
	CHEM 20482 Basic Organic Chemistry II or CHEM 30475 Organic Chemistry Laboratory I	1-2			■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semester Four [15 Credits]							
!	BSCI 30156 Elements of Genetics	3	■		■		
!	MATH 12002 Analytic Geometry and Calculus I	5			■	KMC	
	GEOG 49070 Geographic Information Science	4	■		■		
	Kent Core Requirement	3					
Semester Five [15 Credits]							
	BSCI 40374 Conservation Biology	4	■		■		
	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 ³	4 - 5					
Semester Six [14 Credits]							
	BSCI 40600 Writing in the Biological Sciences ⁴	1	■	C	■	WIC	
	Foreign Language ³	4 - 5					
	Geography Electives ⁵	3			■		
	Kent Core Requirement	3					
	Biology Elective ⁶	3			■		
Semester Seven [16 Credits]							
!	BSCI 40163 Evolution	3	■		■		
	Geography Electives ⁵	3			■		
	Geology Electives ⁷	3 - 4			■		
	Biology Elective ⁶	4					
	General Elective ²	3					
Semester Eight [15 Credits]							
	Geology Electives ⁷	3 - 4			■		
	Biology Electives ⁶	9			■		
	General Elective ²	3					

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

- US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
- Number of upper division credits required depends on meeting minimum 120 credit hours and minimum 42 upper-division credit hours
- Fulfills College General Requirement.
- A minimum C (2.000) grade must be earned in BSCI 40600 to fulfill the writing-intensive requirement.
- Geography electives (6 credits)

Choose from the following:

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)



6. Biology electives (16 credits)

Choose from the following: Concentration Electives	
Any BSCI upper-division course * (10 - 15)	Must choose from the following (but no more than 6 credit hours of any combination allowed):** (1 - 6) BSCI 30005 Career Pathways in Biology (1) BSCI 40099 Senior Honors Thesis (1 - 6) [ELR] BSCI 40191 Senior Seminar (1 - 6) BSCI 40192 Internship in Biological Sciences (3 - 4) [ELR] BSCI 40196 Individual Investigation (1 - 6) [ELR]
May choose from Non-BSCI electives: (0 - 6)	
ANTH 48835 Primate Ecology and Conservation (3)	
POL 10300 Public Policy (3)	
POL 40440 U.S. Environmental Politics and Policies (3)	

* Select any 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 credits may be S/U graded

7. Geology electives (6-8 credits)

Choose from the following:	
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 20020 Biological Structure and Function (5)
BSCI 10002 Life on Planet Earth (3)	BSCI 20021 Basic Microbiology (3)
BSCI 10003 Laboratory Experience in Biology (1)	BSCI 20022 Basic Microbiology Laboratory (1)
BSCI 10100 Anatomy for Veterinary Technicians (5)	BSCI 26002 Ecological Principles of Pest Management (3)
BSCI 11001 Anatomy for Physical and Occupational Therapy (5)	BSCI 26003 Plant Identification and Selection I (3)
BSCI 11010 Anatomy and Physiology I for Allied Health (3)	BSCI 26004 Plant Identification and Selection II (3)
BSCI 11020 Anatomy and Physiology II for Allied Health (3)	BSCI 30050 Human Genetics (3)
BSCI 16001 Horticultural Botany (3)	BSCI 40020 Biology of Aging (3)

University Requirements Summary

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	Kent Core I. Composition Enrollment based on placement test	visit www.kent.edu/catalog/kent-core	6
KMC	Kent Core II. Mathematics and Critical Reasoning Enrollment based on placement test	MATH 12002	fulfilled
KHU	Kent Core III. Humanities Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFA	Kent Core IV. Fine Arts Minimum one course from the fine arts; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFH	Kent Core V. Humanities or Fine Arts One additional course from either the humanities or fine arts category, may fulfill diversity requirement.	visit www.kent.edu/catalog/kent-core	3
KSS	Kent Core VI. Social Sciences Must be selected from two curricular areas; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	6
KBS	Kent Core VII. Basic Sciences Must include one laboratory	BSCI 10110, BSCI 10120	fulfilled
KAD	Kent Core VIII. Additional May fulfill diversity requirement	CHEM 10060, CHEM 10061, CHEM 10062, CHEM 10063, GEOL 11040, GEOL 11041,	fulfilled
DD	Domestic Diversity Course Requirement Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
DG	Global Diversity Course Requirement Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
ELR	Experiential Learning Requirement Either course or non-course experience approved by the appropriate faculty member	visit www.kent.edu/catalog/elr	one course or activity
WIC	Writing-Intensive Course Requirement Minimum C (2.000) grade	BSCI 40600	fulfilled