

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: 2012–2013

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

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Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
Semester One: [15 Credit Hours]					
Students not placed into MATH 12002 (required in semes	ter 4) sh	ould ta	ke MA	TH 110	010 or 12022 in first year of study
BSCI 10110 Biological Diversity	4				Fulfills Kent Core Basic Sciences
CHEM 10060 General Chemistry I	4				Fulfills Kent Core Basic Sciences;
CHEM 10062 General Chemistry I Laboratory	1				courses must be taken together
US 10097 Destination Kent State: First Year Experience	1				Not required of transfer students with 25 credits
Kent Core Requirement	3				See Kent Core Summary on page 2
Kent Core Requirement	2-3				See Kent Core Summary on page 2
Semester Two: [15 Credit Hours]					
BSCI 10120 Biological Foundations	4				Fulfills Kent Core Additional
CHEM 10061 General Chemistry II	4				Fulfills Kent Core Basic Sciences
CHEM 10063 General Chemistry II Laboratory	1				Fulfills Kent Core Basic Sciences
Kent Core Requirement	3				See Kent Core Summary on page 2
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Three: [15-16 Credit Hours]					
BSCI 30360 General Ecology	4			-	Offered in fall only
CHEM 20481 Basic Organic Chemistry I	4				
CHEM 20482 Basic Organic Chemistry II	1-2				
or CHEM 30475 Organic Chemistry Laboratory I Kent Core Requirement	3				
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Four: [16 Credit Hours]	Ū				
BSCI 30156 Elements of Genetics	3				
MATH 12002 Analytic Geometry and Calculus I	5			-	Fulfills Kent Core Mathematics and Critical Reasoning
GEOG 49070 Geographical Information Science	3	•		•	Reasoning
Kent Core Requirement	3				See Kent Core Summary on page 2
Conservation Biology Concentration Elective	2				See note 3 on page 2
Semester Five: [15-16 Credit Hours]					
BSCI 40374 Conservation Biology	4				Offered in fall only
GEOL 11040 Earth Dynamics	3				Fulfills Kent Core Basic Sciences:
GEOL 11041 Earth Dynamics Laboratory	1				courses must be taken together
GEOG 39002 Statistical Methods in Geography or GEOL 42035 Scientific Methods in Geology	3				
Foreign Language (Elementary I)	4-5				Fulfills College General Requirement
Semester Six: [14-16 Credit Hours]					
BSCI 40600 Writing in Biological Sciences	1		С		Fulfills writing-intensive course requirement
Foreign Language (Elementary II)	4-5				Fulfills College General Requirement
Geography Elective	3				See note 1 on page 2
Kent Core Requirement	3				See Kent Core Summary below
Conservation Biology Concentration Elective	4				See note 3 on page 2
Semester Seven: [13-15 Credit Hours]					, ,
BSCI 40163 Organic Evolution	3				
Geography Elective	3				See note 1 on page 2
Geology Elective	3-4				See note 2 on page 2
General Elective (lower or upper division)	4	_		_	



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Critical requirements are boldface in shaded areas

Course Subject and Title	Credit Hours	Min. Grade	Important Notes
Semester Eight: [17 Credit Hours]			
Geology Elective	3-4		
Conservation Biology Concentration Electives	10		See note 3 below
General Elective (lower or upper division)	4		Number of credits required depends on meeting minimum 121 credit hours and minimum 42 upperdivision credit hours

Graduation Requirements Summary

Minimum	Minimum Upper-	Minimum	Global / Domestic	Writing-	Experiential	Minii	mum
Total Hours	Division Hours	Kent Core Hours	Diversity Course	Intensive	Learning	Major GPA	Overall GPA
121	42	36	Kent Core	BSCI 40600	Visit www.kent.edu/catalog/elr	2.000	2.000

Kent Core Summary

Neill Core Summary		
Kent Core Categories	Important Notes	Remaining Credit Hours
Composition (6-8 credit hours) ENG 11002, 11011, 21011; HONR 10197, 10297	Enrollment based on placement test	6-8
Mathematics and Critical Reasoning (3-5 credit hours)	Fulfilled in this major with MATH 12002	0
Humanities and Fine Arts (9 credit hours) Minimum one course from humanities in Arts and Sciences and minimum one course from fine arts	May fulfill diversity requirement	9
Social Sciences (6 credit hours) Must be selected from two curricular areas	May fulfill diversity requirement	6
Additional (6 credit hours) Must be selected from two Kent Core categories	4 credits fulfilled in this major with BCSI 10120; may fulfill diversity requirement	2
Basic Sciences (6-7 credit hours) Must include one laboratory	Fulfilled in this major with BCSI 10110, CHEM 10060, CHEM 10061, CHEM 10062, CHEM 10063, GEOL 11040, 11041	0

Note 1: Geography electives (6 credit hours), choose from the following:

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GEOG 31062 Fundamentals of Meterology	3	GEOG 41074 Resource Geography	3
GEOG 31064 Principles of Climatology	3	GEOG 41082 Geography of Soils	3
GEOG 41052 Glaciers and Glaciation	3	GEOG 49080 Advanced Geographic Information Science	3
GEOG 41066 Climate Change and Its Impact	3	GEOG 49230 Remote Sensing	3
GEOG 41073 Conservation of Natural Resources	3	GEOG upper-division course with advisor approval	3

Note 2: Geology electives (6-8 credit hours), choose from the following:

GEOL 32066 Geomorphology	4	GEOL 42078 Engineering Geology	4
GEOL 41077 Geology of the National Parks	3	GEOL 43042 Environmental Geochemistry	3
GEOL 42067 Introductory Hydrogeology	3	GEOL 43044 Environmental Isotopes	3
GEOL 42069 Hydrogeochemistry	3	GEOL 44074 Paleooceanography	3
GEOL 42074 Environmental Core and Well Logging	3	GEOL upper-division course with advisor approval	3-4

Note 3: Conservation Biology Concentration electives (16 credit hours), choose from the following:

BSCI upper-division courses*	9-15	Must include one but no more than 6 credit hours:	
ANTH 48835 Primate Ecology and Conservation	3	BSCI 30005 Career Pathways in Biology	1
POL 10300 Public Policy	3	BSCI 40099 Senior Honors Thesis [ELR]	1-6
POL 40440 U.S. Environmental Politics and Policies	3	BSCI 40191 Senior Seminar	6
		BSCI 40192 Internship in Biological Sciences [ELR]	3-6
		BSCI 40196 Individual Investigation	1-6

ELR fulfills experiential learning requirement

Note: All courses taken from the list of major program requirements are used in the calculation of the major GPA.

^{*}Select any combination of upper-division BSCI courses other than those used to meet the Environmental and Conservation Biology core and Conservation Biology concentration requirements as listed above. Suggested BSCI courses include: 30274, 30275, 30277, 30361, 30361, 30362, 30370, 30560, 30580, 30582, 40160, 40162, 40170, 40360, 40272, 40275, 40375, 40376, 40515, 40556. Students should consult with the advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.



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

10001 Human Biology	11010 Anatomy and Physiology I for Allied Health	26002 Ecological Principles of Pest Mgmt
10002 Life on Planet Earth	11020 Anatomy and Physiology II for Allied Health	26003 Plant Identification and Selection I
10003 Laboratory Experience in Biology	16001 Horticultural Botany	26004 Plant Identification and Selection II
10100 Anatomy for Veterinary Technicians	20020 Biological Structure and Function	30050 Human Genetics
11001 Anatomy for Physical and Occupation	20021 Basic Microbiology	40020 Biology of Aging
Therapists	20022 Basic Microbiology Lab	

Kent Core

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit www.kent.edu/catalog/kent-core for course list.

Diversity Course Requirement

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit www.kent.edu/catalog/diversity for course list.

Writing-Intensive Course Requirement

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.000) grade. Visit www.kent.edu/catalog/wic for course list.

Experiential Learning Requirement (ELR)

To provide students with direct engagement in learning experiences that promote academic relevance, meaning and an understanding of real-world issues, students must complete this requirement at Kent State, either as a for-credit course or as a non-credit, non-course experience approved by the appropriate faculty member. Visit www.kent.edu/catalog/elr for course list.

Upper-Division Requirement

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.

Foreign Language

Visit www.kent.edu/catalog/foreign-languages for course list.

