ENVIRONMENTAL AND CONSERVATION BIOLOGY - B.S.

College of Arts and Sciences

Department of Biological Sciences www.kent.edu/biology

About This Program

The Environmental and Conservation Biology program combines the fundamental science of ecology with applied aspects of conservation and management to prepare you for one of many rewarding careers in environmental science. Enroll now and make a difference for future generations. Read more...

Contact Information

- Program Coordinator. Edgar Kooijman | ekooijma@kent.edu | 330-672-8568
- · Speak with an Advisor
- · Chat with an Admissions Counselor

Program Delivery

- · Delivery:
 - · In person
- · Location:
 - Kent Campus

Examples of Possible Careers and Salaries*

Conservation scientists

- · 5.1% faster than the average
- · 24,500 number of jobs
- \$64,020 potential earnings

Forest and conservation technicians

- 0.6% little or no change
- · 21,200 number of jobs
- \$38,940 potential earnings

Foresters

- · 3.8% about as fast as the average
- · 11,600 number of jobs
- \$63,980 potential earnings

Forestry and conservation science teachers, postsecondary

- 2.2% slower than the average
- · 2,100 number of jobs
- \$87,400 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of English language proficiency unless they meet specific exceptions. For more information, visit the admissions website for international students.

Transfer Students: Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

Program RequirementsMajor Requirements

Code	Title	Credit Hours
Major Requireme	ents (courses count in major GPA)	
BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1	1
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4

CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
ESCI 11040	HOW THE EARTH WORKS (KBS)	3
ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS)	1
200111011	(KLAB)	·
ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	3
or GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Geography Electives	s, choose from the following:	6
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	CLIMATE AND THE ENVIRONMENT	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41082	GEOGRAPHY OF SOILS	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Geography (GEO with biology adv	G) Upper-Division Courses (30000 or 40000 level)	
2,	ves, choose from the following:	6-8
ESCI 32066	GEOMORPHOLOGY	
ESCI 41077	GEOLOGY OF THE NATIONAL PARKS	
ESCI 43042	ENVIRONMENTAL GEOCHEMISTRY	
ESCI 43044	ENVIRONMENTAL ISOTOPES	
ESCI 44074	PALEOCEANOGRAPHY	
Earth Science (E with biology adv	SCI) Upper-Division Courses (30000 or 40000 level)	
Additional Requiren	nents (courses do not count in major GPA)	
UC 10001	FLASHES 101	1
Foreign Language (see Foreign Language College Requirement below)	8
Kent Core Composit	ion	6
Kent Core Humaniti	es and Fine Arts (minimum one course from each)	9
Kent Core Social Sc	iences (must be from two disciplines)	6
	otal credit hours depends on earning 120 credits	7
Concentrations	,	
Choose from the fol	lowing:	26
Conservation Bio	-	20
	olicy and Management	
Livilorillelital F	oney and management	

A minimum C grade must be earned to fulfill the writing-intensive requirement.

Conservation Biology Concentration Requirements

Code	Title	Credit Hours
Concentration Requir	rements (courses count in major GPA)	
BSCI 40374	CONSERVATION BIOLOGY (ELR)	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 20482	BASIC ORGANIC CHEMISTRY II	1-2
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
Concentration Electiv	ves, choose from the following: ¹	16

ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION
BSCI 30105	CAREER PATHWAYS IN BIOLOGY
BSCI 40191	SENIOR SEMINAR
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)
BSCI 40199	SENIOR HONORS THESIS (ELR)
POL 10300	PUBLIC POLICY
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES
Biological Science level) ²	es (BSCI) Upper-Division Courses (30000 or 40000
Additional Requireme	ents (courses do not count in major GPA)

- No more than 4 credit hours of electives may be S/U graded. Minimum 1 credit hour must come from a Biology (BSCI) course option.
- Students cannot select Biological Sciences (BSCI) courses that will be 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.

Environmental Policy and Management Concentration Requirements

Code	Title	Credit Hours
Concentration Require	ements (courses count in major GPA)	
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
Economics, Policies, F	Resources Electives, choose from the following:	6
ECON 22060 & ECON 32084	PRINCIPLES OF MICROECONOMICS (KSS) and ECONOMICS OF THE ENVIRONMENT	
POL 10300 & POL 40440	PUBLIC POLICY and U.S. ENVIRONMENTAL POLITICS AND POLICIES	
RPTM 26081 & RPTM 36082	PRINCIPLES OF OUTDOOR RECREATION and INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	
RPTM 26081 & RPTM 36083	PRINCIPLES OF OUTDOOR RECREATION and ENVIRONMENTAL EDUCATION AND CONSERVATION	
Concentration Elective	es, choose from the following: ¹	16
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40191	SENIOR SEMINAR	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
CHEM 20481	BASIC ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
Biological Science level) ²	s (BSCI) Upper-Division Courses (30000 or 40000	

No more than 4 credit hours of electives may be S/U graded. Minimum 1 credit hour must come from a Biology (BSCI) course option.

Minimum Total Credit Hours:

Students cannot select Biological Sciences (BSCI) courses that will be 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.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2 000	2 000

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

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

Foreign Language College Requirement, B.S.

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.¹
- The Bachelor of Science in Medical Laboratory Science is exempt from this requirement.²
- · Minimum Elementary I and II of the same language
- All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 8 credit hours and two courses, they will complete remaining credit hours with general electives.
- The Bachelor of Science in Medical Laboratory Science exemption exists under another college policy (Three-Plus-One Programs).

Roadmaps

Conservation Biology Concentration

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

	Semester One		Credits
	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
	Kent Core Requi	rement	3
	Kent Core Requi	rement	3
		Credit Hours	16
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requi	rement	3
	General Elective		2
		Credit Hours	14
	Semester Three		
!	BSCI 30360	GENERAL ECOLOGY	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
	OHEM 20482 or CHEM 30475	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR)	0-2
	Kent Core Requi	()	3
	Kent Core Requi		3
		Credit Hours	15
	Semester Four	Credit Hours	15
į.	Semester Four BSCI 30156	Credit Hours ELEMENTS OF GENETICS	15
!			
!	BSCI 30156	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I	3
ļ	BSCI 30156 CHEM 20482 or	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I	3
!	BSCI 30156 CHEM 20482 or CHEM 30475	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I (ELR)	3 0-2
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OF ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3 0-2 4
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OF ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3 0-2 4 5
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours	3 0-2 4 5 3 15
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR)	3 0-2 4 5 3 15
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OF ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS)	3 0-2 4 5 3 15
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OF ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	3 0-2 4 5 3 15 4 3
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OF ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS)	3 0-2 4 5 3 15
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041 ESCI 42035 or	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) DATA ANALYSIS IN THE EARTH SCIENCES OR STATISTICAL METHODS IN GEOGRAPHY	3 0-2 4 5 3 15 4 3
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041 ESCI 42035 or GEOG 39002	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II OR ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) DATA ANALYSIS IN THE EARTH SCIENCES OR STATISTICAL METHODS IN GEOGRAPHY	3 0-2 4 5 3 15 4 3 1
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041 ESCI 42035 or GEOG 39002	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	3 0-2 4 5 3 15 4 3
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041 ESCI 42035 or GEOG 39002 Foreign Language	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	3 0-2 4 5 3 15 4 3
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041 ESCI 42035 or GEOG 39002 Foreign Language Semester Six	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY GE Credit Hours WRITING IN THE BIOLOGICAL SCIENCES (WIC)	3 0-2 4 5 3 15 4 3 1 3
	BSCI 30156 CHEM 20482 or CHEM 30475 GEOG 49070 MATH 12002 Kent Core Requi Semester Five BSCI 40374 ESCI 11040 ESCI 11041 ESCI 42035 or GEOG 39002 Foreign Language Semester Six BSCI 40600	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) GEOGRAPHIC INFORMATION SCIENCE ANALYTIC GEOMETRY AND CALCULUS I (KMCR) rement Credit Hours CONSERVATION BIOLOGY (ELR) HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY GE Credit Hours WRITING IN THE BIOLOGICAL SCIENCES (WIC) lective tive	3 0-2 4 5 3 15 4 3 1 1 3 4 15 1

Environmental Policy and Management Concentration

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

	Semester One		Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10001	FLASHES 101	1
	Kent Core Requi	rement	3
	Kent Core Requi	rement	3
		Credit Hours	16
	Semester Two		
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requi	rement	3
	Kent Core Requi	rement	3
		Credit Hours	15
	Semester Three		
!	BSCI 30360	GENERAL ECOLOGY	4
į.	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Economics, Poli	cies, Resources Elective	3
	Kent Core Requi	rement	3
		Credit Hours	15
	Semester Four		
· !	BSCI 30156	ELEMENTS OF GENETICS	3
	BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
	GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
	Economics, Poli	cies, Resources Elective	3
	General Elective		2
		Credit Hours	16
	Semester Five		
	ESCI 11040	HOW THE EARTH WORKS (KBS)	3
	ESCI 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	esci 42035 or GEOG 39002	DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	3

		Minimum Total Credit Hours:	120
		Credit Hours	14
	General Elective	es	5
	Earth Science E	Elective	3-4
	Concentration I	Electives	6
	Semester Eight		
		Credit Hours	15
	Geography Elec	etive	3
	Earth Science E	Elective	3-4
	Concentration I	Electives	6
!	BSCI 40163	EVOLUTION	3
	Semester Seve	n	
		Credit Hours	15
	Kent Core Requ	irement	3
	Foreign Langua	nge	4
	Geography Elec	etive	3
	Concentration I	Electives	4
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Semester Six	Credit Hours	14
	Kent Core Requ		3
	Foreign Language		4

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours
Kent Core Requirements	

veni core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)

6

Total Credit Hours:

36-37

Program Learning Outcomes

Graduates of this program will be able to:

- 1. Demonstrate an understanding of fundamental biological principles.
- Acquire fundamental skills necessary for laboratory and field investigations.
- Demonstrate an understanding of proper experimental design, analysis of biological data and communication of research results.
- Demonstrate a greater knowledge and appreciation of the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

Full Description

The Bachelor of Science degree in Environmental and Conservation Biology is designed for students interested in a career in the environmental sciences. This program provides an interdisciplinary education in biology and the supporting fields of geology, geography and chemistry. Environmental and conservation biologists work to sustainably manage or restore ecosystems, develop and implement environmental policies, or conduct research on how ecological processes affect biological diversity.

Potential careers for graduates include wildlife ecologists, environmental educators, forest managers, environmental consultants and personnel at public environmental regulatory or land use planning agencies. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

The Environmental and Conservation Biology major comprises the following concentrations:

- The Conservation Biology concentration provides a strong background in applied ecology, restoration ecology and habitat management strategies used to sustain biological diversity.
- The Environmental Policy and Management concentration provides opportunities to learn about the development and implementation of habitat management methods and public policies that promote the sustainable use of natural resources and address environmental problems.