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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

- 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.

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 proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

(Code	Title	Credit Hours
I	Major Requirements (courses count in major GPA)	
E	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
E	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
E	BSCI 30156	ELEMENTS OF GENETICS	3
Ī	BSCI 30360	GENERAL ECOLOGY	4

BSCI 40163	EVOLUTION	3
BSCI 40224	QUANTITATIVE METHODS IN BIOLOGY ¹	3-4
or ESCI 42035	DATA ANALYSIS IN THE EARTH SCIENCES	
or GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) 2	1
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) (KLAB)	1
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Biology Elective, cho	ose from the following: ³	1-6
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
Earth Science Electiv	ves, choose from the following:	6-8
ESCI 32066	GEOMORPHOLOGY	
ESCI 33025	WATER AND THE ENVIRONMENT	
ESCI 41077	GEOLOGY OF THE NATIONAL PARKS	
ESCI 42065	WATERSHED HYDROLOGY	
ESCI 42066	PHYSICAL HYDROGEOLOGY	
ESCI 43042	ENVIRONMENTAL GEOCHEMISTRY	
ESCI 44072	MARINE PROCESSES	
ESCI 44074	PALEOCEANOGRAPHY	
level) with biology	e (ESCI) Upper-Division course (30000 or 40000 y advisor approval	
,	lectives, choose from the following: 4	8
CHEM 10058 & CHEM 10059	GENERAL CHEMISTRY FOR LIFE SCIENCES I and GENERAL CHEMISTRY FOR LIFE SCIENCES II	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
& CHEM 10061	and GENERAL CHEMISTRY II (KBS)	
Geography Electives,	, choose from the following:	6
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	CLIMATE AND THE ENVIRONMENT	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41077	WATER AND SOCIETY	
GEOG 41800	GLOBAL ENVIRONMENTAL ISSUES	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
	REMOTE SENSING	
GEOG 49230		
Any Geography (G level) with biology	GEOG) Upper-Division course (30000 or 40000 y advisor approval	
Any Geography (G level) with biology Additional Requireme	y advisor approval ents (courses do not count in major GPA)	
Any Geography (G level) with biology Additional Requirem UC 10001	y advisor approval ents (courses do not count in major GPA) FLASHES 101	1
Any Geography (G level) with biology Additional Requireme UC 10001 Foreign Language (se	y advisor approval ents (courses do not count in major GPA) FLASHES 101 ee Foreign Language College Requirement below)	•
Any Geography (G level) with biology Additional Requiremo UC 10001 Foreign Language (so Kent Core Composition	y advisor approval ents (courses do not count in major GPA) FLASHES 101 ee Foreign Language College Requirement below)	1 8 6

Minimum Total Credit Hours			
Environmental Policy and Management			
Conservation Biology			
Choose from the following:			
Concentrations			
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	7		
Kent Core Social Sciences (must be from two disciplines)			

- BSCI 40224, ESCI 42035 or GEOG 39002 can be taken during either fall or spring semester depending on which course is selected. Please speak with a faculty advisor to adjust courses accordingly.
- ² A minimum C grade must be earned to fulfill the writing-intensive requirement.
- Students should select their electives in consultation with a faculty advisor. A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded).
- Students who plan to attend a professional or graduate program are strongly encouraged to take CHEM 10060 and CHEM 10061.

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	15	
ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION		
POL 10300	PUBLIC POLICY		
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES		
Any Biological Sci 40000 level) ²	ences (BSCI) Upper-Division course (30000 or		
Additional Requirements (courses do not count in major GPA)			
General Elective			
Minimum Total Credit Hours:			

- Students should select their electives in consultation with a faculty advisor.
- ² A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Students cannot select biological sciences (BSCI) courses that will be used to meet major or concentration requirements. Students should consult with their faculty 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 R	equirements (courses count in major GPA)	
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
Economics, Poli	cies, Resources Electives, choose from the following:	6

М	inimum Total Credit	Hours:	25
	Any Biological Scie 40000 level) ²	ences (BSCI) Upper-Division course (30000 or	
	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
	CHEM 20482	BASIC ORGANIC CHEMISTRY II	
	CHEM 20481	BASIC ORGANIC CHEMISTRY I	
Co	oncentration Electiv	es, choose from the following: ¹	15
	RPTM 26081 & RPTM 36083	PRINCIPLES OF OUTDOOR RECREATION and ENVIRONMENTAL EDUCATION AND CONSERVATION	
	RPTM 26081 & RPTM 36082	PRINCIPLES OF OUTDOOR RECREATION and INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	
	POL 10300 & POL 40440	PUBLIC POLICY and U.S. ENVIRONMENTAL POLITICS AND POLICIES	
	ECON 22060 & ECON 32084	PRINCIPLES OF MICROECONOMICS (KSS) and ECONOMICS OF THE ENVIRONMENT	

Students should select their electives in consultation with a faculty advisor.

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	SMALL ANIMAL ANATOMY AND PHYSIOLOGY FOR VETERINARY TECHNICIANS	4
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 following programs are exempt from this requirement: The Bachelor of Science in Cybercriminology and the Bachelor of Science in Medical Laboratory Science. 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 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). The Bachelor of Science in Cybercriminology exemption is due to its extensive collaboration with and contribution from the Information Technology program in the College of Applied and Technical Studies, which does not have a foreign language requirement.

Roadmaps

Conservation Biology Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. 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 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
		UC 10001	FLASHES 101	1
	!	General Chemis	try Elective	4
		Kent Core Requ	irement	3
		Kent Core Requ	irement	3
			Credit Hours	16
		Semester Two		
	. !	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
	!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	. !	General Chemis	try Elective	4
		Kent Core Requ	irement	3
		General Elective		2
_			Credit Hours	14
		Semester Three		
	1	BSCI 30360	GENERAL ECOLOGY	4

A maximum 6 credit hours of any combination of BSCI 30105, BSCI 40192, BSCI 40196 and BSCI 40199 may be applied toward the major (with no more than 4 credit hours S/U graded). Students cannot select biological sciences (BSCI) courses that will be used to meet major or concentration requirements. Students should consult with their faculty advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

	General Elective	Credit Hours	3 15
	General Elective		3
	Earth Science El		3-4
	Concentration E		9
	Semester Eight		
		Credit Hours	16
	General Elective		3
	Geography Elect		3
	Earth Science El	ective	3-4
	Concentration E	lective	3
	Biology Elective		1-6
!	BSCI 40163	EVOLUTION	3
	Semester Seven		
		Credit Hours	14
	Kent Core Requi	rement	3
	Foreign Languag		4
	Geography Elect	ive	3
	Concentration E	lective	3
		WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	BSCI 40224 or ESCI 42035 or GEOG 39002	or DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	0-4
	Semester Six		
		Credit Hours	15
	Foreign Languag		4
	L30111U41	(KLAB)	1
	ESCI 11040 ESCI 11041	HOW THE EARTH WORKS (KBS) HOW THE EARTH WORKS LABORATORY (KBS)	3
	BSCI 40374 ESCI 11040	CONSERVATION BIOLOGY (ELR)	4
	or GEOG 39002		4
	BSCI 40224 or ESCI 42035	QUANTITATIVE METHODS IN BIOLOGY or DATA ANALYSIS IN THE EARTH SCIENCES or STATISTICAL METHODS IN GEOGRAPHY	0-4
	Semester Five		13
	Rent Gore nequi	Credit Hours	15
!	MATH 12002 Kent Core Requi	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
	CHEM 30475	,	
	or	or ORGANIC CHEMISTRY LABORATORY I	0-2
!	BSCI 30156 CHEM 20482	ELEMENTS OF GENETICS BASIC ORGANIC CHEMISTRY II	0-2
	Semester Four	ELEVENTO OF OFFICE	•
		Credit Hours	15
	Kent Core Requi	rement	3
	Kent Core Requi	rement	3
	CHEM 30475		
	or	or ORGANIC CHEMISTRY LABORATORY I	0 2
	CHEM 20482	BASIC ORGANIC CHEMISTRY II	0-2

Environmental Policy and Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

BSCI 10110 BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)		Semester One		Credits
KLAB UC 10001	!	BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	4
General Chemistry Elective	!	CHEM 10062		1
Kent Core Requirement		UC 10001	FLASHES 101	1
Credit Hours 16	!	General Chemis	try Elective	4
Credit Hours		Kent Core Requ	irement	3
BSCI 10120 BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)		Kent Core Requi	irement	3
BSCI 10120 BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)			Credit Hours	16
CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) General Chemistry Elective		Semester Two		
General Chemistry Elective	. !	BSCI 10120	BIOLOGICAL FOUNDATIONS (ELR) (KBS) (KLAB)	4
Kent Core Requirement	!	CHEM 10063		1
Name	. !	General Chemis	try Elective	4
Credit Hours 15		Kent Core Requ	irement	3
Semester Three ! BSCI 30360 GENERAL ECOLOGY		Kent Core Requ	irement	3
! BSCI 30360 GENERAL ECOLOGY 4 ! MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Economics, Policies, Resources Elective 3 Kent Core Requirement 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, Policies, Resources Elective 3 General Elective 2 Credit Hours 16 Semester Five BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 0-4 or or DATA ANALYSIS IN THE EARTH SCIENCES 2 ESCI 11040 HOW THE EARTH WORKS (KBS) 3 ESCI 11041 HOW THE EARTH WORKS LABORATORY (KBS) 1 (KLAB) Foreign Language 4 Kent Core Requirement 3 Credit Hours 14 Semester Six BSCI 40224 QUANT			Credit Hours	15
! MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) Economics, Policies, Resources Elective Kent Core Requirement Credit Hours 15 Semester Four ! BSCI 30156 ELEMENTS OF GENETICS BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE Economics, Policies, Resources Elective General Elective Credit Hours 16 Semester Five BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY or or DATA ANALYSIS IN THE EARTH SCIENCES ESCI 42035 or STATISTICAL METHODS IN GEOGRAPHY or GEOG 39002 ESCI 11040 HOW THE EARTH WORKS (KBS) ESCI 11041 HOW THE EARTH WORKS (KBS) ESCI 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) Foreign Language Kent Core Requirement 3 Credit Hours 14 Semester Six BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY or or DATA ANALYSIS IN THE EARTH SCIENCES ESCI 42035 or STATISTICAL METHODS IN BIOLOGY or or DATA ANALYSIS IN THE EARTH SCIENCES ESCI 42035 or STATISTICAL METHODS IN BIOLOGY or or DATA ANALYSIS IN THE EARTH SCIENCES ESCI 42035 or STATISTICAL METHODS IN GEOGRAPHY or GEOG 39002 BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) Biology Elective 1-6 Concentration Elective Geography Elective 3 Foreign Language Kent Core Requirement 3 Kent Core Requirement 3		Semester Three		
Economics, Policies, Resources Elective	!			4
Credit Hours 15	!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Semester Four		•	,	3
Semester Four Part		Kent Core Requ	irement	3
! BSCI 30156 ELEMENTS OF GENETICS 3 BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Economics, Policies, Resources Elective 3 General Elective 2 Credit Hours 16 Semester Five BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 0-4 or or DATA ANALYSIS IN THE EARTH SCIENCES ESCI 42035 or STATISTICAL METHODS IN GEOGRAPHY or GEOG 39002 4 ESCI 11040 HOW THE EARTH WORKS (KBS) 3 ESCI 11041 HOW THE EARTH WORKS LABORATORY (KBS) 1 (KLAB) Foreign Language 4 Kent Core Requirement 3 Credit Hours 14 Semester Six BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 0-4 or or DATA ANALYSIS IN THE EARTH SCIENCES ESCI 42035 or STATISTICAL METHODS IN GEOGRAPHY 0-7 or GEOG 39002 BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Biology Elective 1-6 <td< td=""><td></td><td></td><td>Credit Hours</td><td>15</td></td<>			Credit Hours	15
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Geography Elective 3 Foreign Language 4 Kent Core Requirement 3				
Foreign Language 4 Kent Core Requirement 3				
Kent Core Requirement 3				
				3
		· ·	Credit Hours	15

	Semester Seve	en	
!	BSCI 40163	EVOLUTION	3
	Concentration Electives		6
	Earth Science Elective		3-4
	Geography Ele	3	
Credit Hours			15
Semester Eight			
Concentration Electives			6
Earth Science Elective			3-4
	General Electiv	ves	5
Credit Hours			14
Minimum Total Credit Hours:			120

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	
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.

Program Policies Foreign Language Requirements

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies. However, certain majors, concentrations and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, students should seek the advice of the appropriate department before selecting a language.

Progress Toward Fulfillment

College of Arts and Sciences students are encouraged to begin meeting the foreign language requirement as early as possible in their program to ensure timely degree completion.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

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 earth sciences, 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.