



ENVIRONMENTAL BIOLOGY OPTION

DEPARTMENT OF BIOLOGICAL SCIENCES
AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

SP20

GENERAL EDUCATION: 30-38 HRS

LANGUAGE: 9 HRS

Course	Hours	Grade	Semester
ENG 1001G	3		
ENG 1002G	3		
CMN 1310G	3		

Grade of "C" or better is required

SCIENCE AWARENESS: 7HRS

Completed in major.

MATHEMATICS: 3 HRS

Completed in major: 4

HUMANITIES/FINE ARTS*: 9 HRS

Area	Hours	Grade	Semester
Humanities	3		
Fine Arts	3		
Humanities/Fine Arts	3		

SOCIAL/BEHAVIORAL SCIENCES*: 9 HRS

Must be from two different disciplines.

Course	Hours	Grade	Semester
ECN 2800G	3		
	3		
	3		

* One course must meet Cultural Diversity requirement.

SENIOR SEMINAR: 3 HRS

Course	Hours	Grade	Semester
EIU _____	3		

Except: EIU 4101G, 4111G, 4118G, 4131G, 4169G, 4290G

FOREIGN LANGUAGE: 0-8 HRS

EXEMPT? YES NO

Exempt if 2yrs in high school of a single foreign language with average grade of "C" or better.

Course	Hours	Grade	Semester

SCIENCE CORE: 65-69 HRS

Course	Hours	Grade	Semester
BIO 1150 Biology Forum	1		
BIO 1500 General Biology I	4		
BIO 1550G* General Biology II	4		
BIO 3120* Molecular & Cell Biology	4		
BIO 3200* Genetics	4		
BIO 3510 Plant Physiology OR 3520* Animal Physiology	4		
BIO 3180* Ecology and Evolution	4		
BIO 3850* Environmental Biology	4		
BIO 4275** Internship (See back)	12		
CHM 1310G General Chemistry I	3		

CHM 1315G General Chemistry I Lab	1		
CHM 1410* General Chemistry II	3		
CHM 1415* General Chemistry II Lab	1		
CHM 2430/2440# Organic Chemistry	3		
CHM 2435/2445# Organic Chemistry Lab	1		
MAT 2110G Brief Calculus OR 1441G* Calculus I	3-5		
BIO 4750* Statistical Analysis of Sci Data OR MAT 2250G* Elementary Statistics	4		
Any PLS 3000 or Above PLS _____	3		
ECN 2800G Economics of Social Issues	3		

*CHM 2440/CHM 2445 (Organic Chemistry I with Lab) and CHM 2840/CHM 2845 (Organic Chemistry II) sequence is recommended for Pre-Health or Graduate Programs.

*Additional prerequisite classes may be required. See Undergraduate Catalog

MAJOR ELECTIVES: 15 HRS

A minimum of 15 hrs must be taken in Biological Sciences coursework. Choose elective course options from the courses listed.

Course	Hours	Grade	Semester

Note: PHY 1151/52 and PHY 1161/62 recommended if planning on applying to graduate school.

- BIO 3300 (4) General Microbiology
- BIO 3322 (3) Dendrology
- BIO 3450 (1-3) Independent Study
- BIO 3451 (1-3) Undergraduate Research
- BIO 3612 (3) Plant Evolution & Diversity
- BIO 3620 (3) Functional Comparative Anatomy
- BIO 3710 (3) Plant-Animal Interactions
- BIO 3810 (3) Freshwater Ecology
- BIO 3950 (3) Vertebrate Natural History
- BIO 3952 (3) Invertebrate Natural History
- BIO 4400 (1) Teaching in the Lab
- BIO 4810 (4) Plant Ecology
- BIO 4812 (3) Fisheries Ecology & Mgmt
- BIO 4814 (3) Conservation Biology
- BIO 4816 (3) Biotic Communities
- BIO 4818 (4) Environmental Microbiology
- BIO 4820 (4) Spatial Analysis for Environmental Sciences
- BIO 4832 (4) Animal Behavior
- BIO 4840 (3) Resource Mgmt & Env. Asmnt.
- BIO 4842 (3) Wildlife Ecology Mgmt
- BIO 4920 (3) Medicinal Plants
- BIO 4940 (3) Phycology
- BIO 4942 (3) Mycology
- BIO 4944 (3) Lichens
- BIO 4946 (3) Bryology
- BIO 4948 (3) Plant Taxonomy
- BIO 4950 (3) Ichthyology
- BIO 4952 (3) Herpetology
- BIO 4954 (3) Ornithology
- BIO 4956 (3) Mammalogy
- BIO 4958 (4) Parasitology
- BIO 4960 (3) Wetland & Aqua. Vasc. Plants
- BIO 4964 (4) Entomology
- BIO 4984 (3) Organic Evolution
- ECN 3810 (3) Economics of Natural Resources
- GEO 3550 (3) Surface Water Proc. & Res
- GEO 4850 (3) Environmental Geology
- GEO 3780 (3) Land Use Planning
- GEO 3810 (3) GIS I
- GEO 3820 (3) Remote Sensing I
- GEO 3870 (3) Remote Sensing II
- CHM 4750 (3) Environmental Chemistry

BE PREPARED: UPDATE THIS FORM BEFORE MEETING WITH YOUR ADVISOR

GENERAL ELECTIVES:

Select other elective courses in ANY FIELD to complete graduation requirement of 120 semester hours.

Course	Hours	Grade	Semester

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ENVIRONMENTAL BIOLOGY OPTION SUGGESTED COURSE SEQUENCE:

YEAR 1	FIRST SEMESTER (17-18 HOURS)	SECOND SEMESTER (16-17 HOURS)
Must earn 30+ SH for Sophomore Status	ENG 1001G (3) Composition & Language BIO 1500 (4) General Biology I CHM 1310G (3) General Chemistry I & CHM 1315G (1) General Chemistry I Lab BIO 1150 (1) Biology Forum ¹ Gen Ed Elective (2-3)	ENG 1002G (3) Composition & Language CHM 1410G (3) General Chemistry II & CHM 1415G (1) General Chemistry II Lab BIO 1550G (4) General Biology II ¹ Gen Ed Elective (2-3) ² MAT Prerequisite (2-3) OR MAT 2110 (3) Brief Calculus
YEAR 2	FIRST SEMESTER (13-16 HOURS)	SECOND SEMESTER (14-15 HOURS)
Must earn 60+ SH for Junior Status	CMN 1310G (3) Intro. Speech Communication CHM 2430 (3) Organic Chemistry & CHM 2435 (1) Organic Chemistry Lab & CHM 1315G (1) General Chemistry I Lab ¹ Gen Ed Elective (3) MAT 2110 (3) Brief Calculus	BIO 3120 (4) Molecular & Cell Biology ECN 2800G (3) Economics of Social Issues BIO Elective (3) ¹ Gen Ed Elective (3)
YEAR 3	FIRST SEMESTER (14 HOURS)	SECOND SEMESTER (13-16 HOURS)
Must earn 90+ SH for Junior Status	BIO 3200 (4) Genetics BIO 3510 (4) Plant Physiology OR BIO 3520 (4) Animal Physiology PLS 3763 (3) Env. Policy & Politics ¹ Gen Ed Elective (3)	BIO 3180 (4) Ecology & Evolution BIO 4750 (4) Statistic Anly of Sci Data OR MAT 2250G (4) Elementary Statistics BIO 3850 (4) Environmental Biology BIO Elective (3-4)
YEAR 4	FIRST SEMESTER (12-14 HOURS)	SECOND SEMESTER (12-14 HOURS)
Must earn 120 SH to graduate	EIU _____ (3) Senior Seminar BIO 4725 (12) Internship	<i>* May not be necessary with a summer internship</i> BIO Elective (3-4) BIO Elective (3-4) ³ Free Elective (3) Exit Interview

¹ General Education Elective

² See ACT Math Placement

³ Take course that was not previously taken

The suggested sequence assumes that the foreign language requirement has been completed.

**BIO 4275 INTERNSHIP:

12 hours of BIO 4275 is required in the major OR 6 hours of BIO 4275 plus 6 total hours of BIO 3450 Undergraduate Research, BIO 3451 independent Study, BIO 4444 Honors Independent Study, or BIO 4555 Honors Research. Research/independent study coursework hours counted here may not also be counted toward elective credit.

GRADUATION REQUIREMENTS:

120 Semester Hours (SH)	2.00 Cumulative GPA	Notes:
40 SH of upper division courses (3000+)	2.00 Major GPA	
42 SH in residence at EIU	Senior Seminar (after 75 SH)	
32 SH junior-senior residency	Cultural Diversity	
12 SH senior residency	Application for Graduation (First semester junior year)	
56 SH at senior institution	Electronic Writing Portfolio 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	
Exit Interview (Final semester on campus)	See www.eiu.edu/assess for requirements	