



# ENVIRONMENTAL BIOLOGY OPTION

DEPARTMENT OF BIOLOGICAL SCIENCES  
AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	
AS/AA/ASA DEGREE	
TRANSFER HOURS	

F17

## 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	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	3-4		
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

- 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 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 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
- ESC 3300 (3) Soils
- ESC 3550 (3) Surface Water Proc. & Res
- GEL 4850 (3) Environmental Geology
- GEG 3780 (3) Land Use Planning
- GEG 3810 (3) GIS I
- GEG 3820 (3) Remote Sensing I
- GEG 3870 (3) Remote Sensing II
- GEG 3860 (3) GIS 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	<b>ENG 1001G</b> (3) Composition & Language <b>BIO 1500</b> (4) General Biology I <b>CHM 1310G</b> (3) General Chemistry I <b>&amp; CHM 1315G</b> (1) General Chemistry I Lab <b>BIO 1150</b> (1) Biology Forum <sup>1</sup> Gen Ed Elective (2-3) <sup>2</sup> MAT Prerequisite (2-3)	<b>ENG 1002G</b> (3) Composition & Language <b>CHM 1410G</b> (3) General Chemistry II <b>&amp; CHM 1415G</b> (1) General Chemistry II Lab <b>BIO 1550</b> (4) General Biology II <sup>1</sup> Gen Ed Elective (2-3) <sup>2</sup> MAT Prerequisite (2-3) <b>OR MAT 2110</b> (3) Brief Calculus
YEAR 2	FIRST SEMESTER (13-16 HOURS)	SECOND SEMESTER (14-15 HOURS)
Must earn 60+ SH for Junior Status	<b>CMN 1310G</b> (3) Intro. Speech Communication <b>CHM 2430</b> (3) Organic Chemistry <b>&amp; CHM 2435</b> (1) Organic Chemistry Lab <b>&amp; CHM 1315G</b> (1) General Chemistry I Lab <sup>1</sup> Gen Ed Elective (3) <sup>2</sup> MAT Prerequisite (2-5) <b>OR MAT 2110</b> (3) Brief Calculus	<b>BIO 3120</b> (4) Molecular & Cell Biology <b>ECN 2800G</b> (3) Economics of Social Issues <b>BIO Elective</b> (3) <sup>1</sup> Gen Ed Elective (3)
YEAR 3	FIRST SEMESTER (14 HOURS)	SECOND SEMESTER (13-16 HOURS)
Must earn 90+ SH for Junior Status	<b>BIO 3200</b> (4) Genetics <b>BIO 3510</b> (4) Plant Physiology <b>OR BIO 3520</b> (4) Animal Physiology <b>PLS 3763</b> (3) Env. Policy & Politics <sup>1</sup> Gen Ed Elective (3)	<b>BIO 3180</b> (4) Ecology & Evolution <b>BIO 4750</b> (3) Statistic Anly of Sci Data <b>OR MAT 2250G</b> (4) Elementary Statistics <b>BIO 3850</b> (4) Environmental Biology <b>BIO Elective</b> (3-4)
YEAR 4	FIRST SEMESTER (12-14 HOURS)	SECOND SEMESTER (12-14 HOURS)
Must earn 120 SH to graduate	<b>EIU _____</b> (3) Senior Seminar <b>BIO 4725</b> (12) Internship	<i>* May not be necessary with a summer internship</i> <b>BIO Elective</b> (3-4) <b>BIO Elective</b> (3-4) <sup>3</sup> Free Elective (3) <b>Exit Interview</b>

<sup>1</sup> General Education Elective

<sup>2</sup> See ACT Math Placement

<sup>3</sup> Take course that was not previously taken

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

## 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 <a href="http://www.eiu.edu/assess">www.eiu.edu/assess</a> for requirements	