



# BACHELOR OF SCIENCE IN ENVIRONMENTAL BIOLOGY

AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

2023-2024

## GENERAL REQUIREMENTS: 30-38 HRS

### LANGUAGE: 9 HRS

Grade of "C" or better is required.

COURSE	HOURS	GRADE	SEMESTER
<b>ENG 1001G</b> Composition & Language	3		
<b>ENG 1002G</b> Composition & Language II	3		
<b>CMN 1310G</b> Intro. to Speech Comm.	3		

### HUMANITIES/FINE ARTS: 9 HRS

COURSE	HOURS	GRADE	SEMESTER
<b>Humanities</b> _____	3		
<b>Fine Arts</b> _____	3		
<b>Humanities or Fine Arts</b> _____	3		

### SENIOR SEMINAR: 3 HRS

Senior topic must be outside the major area. See Undergraduate Catalog for Senior Seminars outside of Biological Sciences.

COURSE	HOURS	GRADE	SEMESTER
<b>EIU</b> _____	3		

## SCIENCE CORE: 63-65 HRS

COURSE	HOURS	GRADE	SEMESTER
<b>BIO 1150</b> Biology Forum	1		
<b>BIO 1500</b> General Biology I	4		
<b>BIO 1550G</b> General Biology II	4		
<b>BIO 3120*</b> Molecular & Cell Biology	4		
<b>BIO 3180*</b> Ecology & Evolution	4		
<b>BIO 3200*</b> Genetics	4		
<b>BIO 3510</b> Plant Physiology	4		
<b>OR 3520*</b> Animal Physiology	4		
<b>BIO 3850*</b> Environmental Biology	4		
<b>BIO 4275**</b> Internship (see back)	12		
<b>MAT 2110G*</b> Brief Calculus	3		
<b>OR MAT 1441G*</b> Calculus 1	5		

## MAJOR ELECTIVES: 15HRS

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

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 3330** (4) Introduction to Botany
- BIO 3340** (4) Zoology
- 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 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

## SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

Must be from two different disciplines. One course must meet Cultural & Diversity requirement

COURSE	HOURS	GRADE	SEMESTER
<b>ECN 2800G</b> Economics of Social Issues	3		
	3		
	3		

## FOREIGN LANGUAGE: 0-8 HRS

Exempt if 2 yrs in high school with "C" average.

COURSE	HOURS	GRADE	SEMESTER
<b>WL</b> _____ <b>G</b>	4		
<b>WL</b> _____ <b>G</b>	4		

## SCIENCE AWARENESS: 7 HRS

Complete in major.

## MATHEMATICS: 3 HRS

Complete in major.

<b>BIO 4750*</b> Statistic Anly of Sci Data	4		
<b>OR MAT 2250G*</b> Elementry Statistics			
<b>CHM 1310G</b> General Chemistry I	3		
<b>CHM 1315G</b> General Chemistry I Lab	1		
<b>CHM 1410*</b> General Chemistry II	3		
<b>CHM 1415*</b> General Chemistry II Lab	1		
<b>CHM 2430/2440*</b> Organic Chemistry	3		
<b>CHM 2435/2445*</b> Organic Chemistry Lab	1		
<b>PLS 4763</b> Environmental Politics & Policy	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

COURSE	HOURS	GRADE	SEMESTER

- BIO 4958** (4) Parasitology
- BIO 4960** (3) Wetland & Aqua. Vasc. Plants
- BIO 4964** (4) Entomology
- BIO 4984** (3) Evolutionary Biology
- ECN 3810** (3) Economics of Natural Resources
- GEO 3550** (3) Surface Water Proc. & Res
- GEO 3780** (3) Land Use Planning
- GEO 3810** (3) GIS I
- GEO 3820** (3) Remote Sensing I
- GEO 3870** (3) Remote Sensing II
- GEO 4850** (3) Environmental Geology

### CHM 4750 (3) Environmental Chemistry

Courses numbered 5000-5499 inclusive, may be taken by a senior whose graduation requirements average 2.75 or higher, with the permission of the instructor and the Dean of the Graduate School.

## GENERAL ELECTIVES:

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

COURSE	HOURS	GRADE	SEMESTER

COURSE	HOURS	GRADE	SEMESTER

# BACHELOR OF SCIENCE IN ENVIRONMENTAL BIOLOGY

## SUGGESTED 4-YEAR SEQUENCE

## NOTES, QUESTIONS, MINOR REQUIREMENTS:

### YEAR 1 MUST EARN 30+ SH FOR SOPHOMORE STATUS

FALL		SPRING	
ENG 1001G	3	ENG 1002G	3
BIO 1500	4	BIO 1550G	4
CHM 1310G/1315G	4	CHM 1410/1415	4
BIO 1150	1	<sup>1</sup> Gen Ed Elective	3
<sup>1</sup> Gen Ed Elective	3	<sup>2</sup> MAT Prereq	2-3
Total	15	Total	16-17

### YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS

FALL		SPRING	
CMN 1310G	3	BIO 3120	4
CHM 2430/CHM 2435	4	ECN 2800G	3
<sup>1</sup> Gen Ed Elective	3	BIO Elective	3
MAT 2110G	3	BIO Elective	3-4
Total	13	Total	13-14

### YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS

FALL		SPRING	
BIO 3510 OR BIO 3520	4	BIO 3180	4
BIO 4750 OR MAT 2250G	4	BIO 3200	4
PLS 3763	3	BIO 3850	4
Gen Ed Elective <sup>1</sup>	3	BIO Elective >3000	3-4
Total	14	Total	15-16

### YEAR 4 MUST EARN 120 SH TO GRADUATE

FALL		SPRING	
EIU 4XXXG	3	BIO Elective >3000	3-4
BIO 4725	12	BIO Elective >3000	3-4
		<sup>1</sup> Gen Ed Elective	3
		<sup>1</sup> Gen Ed Elective	3
		Exit Interview	
		*May not be necessary with a summer internship	
Total	15	Total	12-14

1 General Education Elective

2 See 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

## GRADUATION REQUIREMENTS:

<input type="checkbox"/>	120 Hours
<input type="checkbox"/>	40 SH of upper division courses (3000+)
<input type="checkbox"/>	30 SH in residence at EIU
<input type="checkbox"/>	30 SH junior-senior residency
<input type="checkbox"/>	12 SH senior residency
<input type="checkbox"/>	2.00 Cumulative GPA

<input type="checkbox"/>	2.00 Major GPA
<input type="checkbox"/>	Cultural Diversity
<input type="checkbox"/>	Application for Graduation (First semester junior year)
<input type="checkbox"/>	Electronic Writing Portfolio 1 <input type="checkbox"/> 2 <input type="checkbox"/>
	See <a href="http://www.eiu.edu/~assess/">www.eiu.edu/~assess/</a> for requirements