

## BIOLOGICAL SCIENCES Option in Environmental Biology

NAME: _____
E #: _____
CATALOG: _____
AS/AA/ASA DEGREE: _____
TRANSFER HOURS: _____

*BE PREPARED: Before meeting with your advisor, update this form*

### GENERAL EDUCATION 41- 49 hrs

#### Language 9hrs *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 3hrs

Completed in major.

#### Humanities/Fine Arts\* 9hrs

HU	3	___	___
FA	3	___	___
HU/FA	3	___	___

#### Senior Seminar 3hrs

EIU \_\_\_\_\_  
Except EIU 4101G, 4111G, 4118G, 4131G,  
4169G, 4290G

#### Social/Behavioral Sciences\* 9hrs

Must be from two different disciplines.

ECN 2800G	3	___	___
PLS 3763	3	___	___
_____	3	___	___

\*Remaining course must meet Cultural Diversity requirement.

#### Foreign Language 0-8hrs

\_\_\_\_\_  
\_\_\_\_\_

EXEMPT? YES NO

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

### SCIENCE CORE 74-75 hrs

#### Course Hrs Grade Semester

BIO 1100	4	___	___	General Biology
BIO 1150	1	___	___	Biology Forum
BIO 1200G*	4	___	___	General Botany
BIO 1300G*	4	___	___	Animal Diversity
BIO 3120*	4	___	___	Mol & Cell Biology
BIO 3200*	4	___	___	Genetics
BIO 3510				Plant Physiology
or 3520 *	4	___	___	Animal Physiology
BIO 3800*	4	___	___	Ecology
BIO 3850*	3	___	___	Environmental Biology
BIO 4275	12	___	___	Internship
BIO 4984*	3	___	___	Organic Evolution

CHM 1310G	3	___	___	General Chemistry I
CHM 1315G	1	___	___	General Chemistry I Lab
CHM 1410*	3	___	___	General Chemistry II
CHM 1415*	1	___	___	General Chemistry II Lab
CHM 2430/2440#	3	___	___	Organic Chemistry
CHM 2435/2445#	1	___	___	Organic Chemistry Lab
MAT 1441G*	5	___	___	Calculus I
BIO 4750*				Biometrics
or MAT 2250G*	3-4	___	___	Elem Statistics

#CHM 2440/CHM 2445 (Organic Chemistry I with Lab) and CHM 2840/CHM 2845 (Organic Chemistry II) sequence is recommended for Graduate Programs.  
\*Additional prerequisite classes may be required. See Undergraduate Catalog.

### 15 HOURS MAJOR ELECTIVES

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

#### Elective Courses for Environmental Biology Majors

BIO 3300 (4) General Microbiology	BIO 4814 (3) Conservation Biology	BIO 4954 (3) Ornithology
BIO 3322 (3) Dendrology	BIO 4816 (3) Biotic Communities	BIO 4956 (3) Mammalogy
BIO 3450 (1 to 3) Independent Study	BIO 4818 (4) Environmental Microbiology	BIO 4960 (3) Wetland & Vascular Aquatic Plants
BIO 3451 (1 to 3) Undergraduate Research	BIO 4820 (4) Spatial Analysis for Environmental Sciences	BIO 4964 (4) Entomology
BIO 3612 (3) Plant Evolution & Diversity	BIO 4832 (4) Animal Behavior	ECN 3810 (3) Economics of Natural Resources
BIO 3700 (3) Parasitology	BIO 4840 (3) Resource Mgmt & Environmental Assessment	ESC 3300 (3) soils
BIO 3710 (3) Plant – Animal Interactions	BIO 4840 (3) Phycology	ESC 3550 (3) Surface Water Processes & Resources
BIO 3810 (3) Freshwater Ecology	BIO 4942 (3) Mycology	GEG 3780 (3) Land Use Planning
BIO 3950 (3) Vertebrate Natural History	BIO 4944 (3) Lichens	GEG 3810 (3) GIS I
BIO 3952 (3) Invertebrate Natural History	BIO 4946 (3) Bryology	GEG 3820 (3) Remote Sensing I
BIO 4400 (1) Teaching in the Lab	BIO 4948 (3) Plant Taxonomy	GEG 3870 (3) Remote Sensing II
BIO 4810 (3) Plant Ecology	BIO 4950 (3) Ichthyology	GEG 3860 (3) GIS II
BIO 4812 (3) Fisheries Ecology & M	BIO 4952 (3) Herpetology	GEL 4335 (3) Environmental Geology

## GENERAL ELECTIVES

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

Course	Hrs	Grade	Semester	Course	Hrs	Grade	Semester
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

GRADUATION REQUIREMENTS	
_____ 120 Semester Hours (SH)	_____ 2.00 Cumulative GPA
_____ 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____, 2____, 3____
	See <a href="http://www.eiu.edu/~assess/">http://www.eiu.edu/~assess/</a> for requirements

## ENVIRONMENTAL BIOLOGY CONCENTRATION SUGGESTED COURSE SEQUENCE

### FIRST YEAR (Must earn 30+ SH for Sophomore status)

#### First Semester (17-18 SH)

ENG 1001G	(3 SH)	Composition & Language
BIO 1100	(4 SH)	General Biology
CHM 1310G	(3 SH)	General Chemistry I
and CHM 1315G	(1 SH)	General Chemistry I Lab
BIO 1150	(1 SH)	Biology Forum
<sup>1</sup> Gen Ed Elective	(3 SH)	
<sup>2</sup> MAT Prerequisite	(2-3 SH)	

#### Second Semester (16-17 SH)

ENG 1002G	(3 SH)	Composition & Literature
CHM 1410G	(3 SH)	General Chemistry II
and CHM 1415G	(1 SH)	General Chemistry II Lab
BIO 1200G	(4 SH)	General Botany
or BIO 1300G	(4 SH)	Animal Diversity
MAT Prerequisite	(2-5 SH)	or MAT 1441 Calculus
Gen Ed Elective	(2-3 SH)	

### SECOND YEAR (Must earn 60+ SH for Junior status)

#### First Semester (13-16 SH)

CMN 1310G	(3 SH)	Intro. Speech Communication
CHM 2430	(3 SH)	Organic Chemistry
CHM 2435	(1 SH)	Organic Chemistry Lab
MAT Prerequisite	(2-5 SH)	or MAT 1441 Calculus
<sup>3</sup> BIO 1200G	(4 SH)	General Botany
or <sup>3</sup> BIO 1300G	(4 SH)	Animal Diversity

#### Second Semester (14-15 SH)

BIO 3120	(4 SH)	Molecular & Cell Biology
ECN 2800G	(3 SH)	Economics of Social Issues
Bio Elective	(3-4 SH)	
Gen Ed Elective	(3 SH)	
Gen Ed Elective	(3 SH)	

### THIRD YEAR (Must earn 90+ SH for Senior status)

#### First Semester (14 SH)

BIO 3200	(4 SH)	Genetics
BIO 3510	(4 SH)	Plant Physiology
or BIO 3520	(4 SH)	Animal Physiology
PLS 3763	(3 SH)	Env. Policy & Politics
Gen Ed Elective	(3 SH)	

#### Second Semester (13-16 SH)

BIO 3800	(4 SH)	Ecology
BIO 4750	(3 SH)	Biometrics
or MAT 2250G	(4 SH)	Elementary Statistics
Bio 3850	(3 SH)	Environmental Biology
Bio Elective	(3-4 SH)	

### FOURTH YEAR (Must earn at least 120 SH to graduate)

\*Internship is typically taken the summer between Junior and Senior years (12 SH)

#### First Semester (12-14 SH)

EIU _____	(3 SH)	Senior Seminar
Bio Elective	(3-4 SH)	
Bio Elective	(3-4 SH)	
Gen. Ed. Elective	(3 SH)	

#### Second Semester (12-14 SH)

*May not be necessary with a summer internship		
BIO 4984	(3 SH)	Organic Evolution
Bio Elective	(3-4 SH)	
Bio Elective	(3-4 SH)	
Free Elective	(3 SH)	

<sup>1</sup> General Education Elective

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

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

Schedule assumes that the foreign language requirement has been completed.