

NAME
E NUMBER
CATALOG

2025-2026

## **GENERAL REQUIREMENTS: 40 HRS**

## LANGUAGE: 9 HRS

Grade of "C" or better is required.

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

#### **HUMANITIES/FINE ARTS: 9 HRS**

COURSE	HOURS	GRADE	SEMESTER
Humanities	3		
Fine Arts	3		
Humanities or Fine Arts	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	EIU		3	
	CC	URSE	HOURS	SEMESTER

## SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

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

COURSE	HOURS	GRADE	SEMESTER
	3		
	3		
	3		

## FOREIGN LANGUAGE: 0-8 HRS

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

	COURSE	HOURS	GRADE	SEMESTER
WL	G	4		
WL	G	4		

## **SCIENCE AWARENESS: 7 HRS**

Complete in major.

## **MATHEMATICS: 3 HRS**

Complete in major.

## **\*SCIENCE CORE: 56 HRS**

BIOLOGY COURSES	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 BIO 3520 Animal Physiology OR BIO 2220+ Anatomy & Physiology II	4		
BIO 3180 Ecology & Evolution	4		
BIO 3300 General Microbiology OR BIO 3330 Introduction to Botany OR BIO 3340 Zoology	4		

PHYSICS COURSES	HOURS	GRADE	SEMESTER
PHY 1151G Principles Physics I	3		
PHY 1152G Principles Physics I Lab	1		
PHY 1161 Principles Physics II	3		
PHY 1162 Principles Physics II Lab	1		

MATH COURSES	HOURS	GRADE	SEMESTER
MAT 2110G Brief Calculus	3		
BIO 4750 Statistic Anly of Sci Data OR MAT 2250 Elementry Statistics	4		
CHEMISTRY COURSES	HOURS	GRADE	SEMESTER
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		

#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.

## **MAJOR ELECTIVES: 21HRS**

21 semester hours of elective course work in Biological Sciences (with the exception 21 hours of course work in Biological Sciences (with the exception of **BIO 3400**, workshops, and courses designed for General Education) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and **CHM 2310**). A minimum of 15 hrs must be taken in Biological Sciences.

BIO 2210 (4) Anatomy and Physiology I BIO 3035 (3) Economic Botany BIO 3210 (4) Immunology BIO 3312 (3) Horticulture 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 3460 (4) Clinical Rotation

BIO 3610 (3) Survey of Algae & Fungi BIO 3612 (3) Plant Evolution & Diversity BIO 3620 (4) Funct. Comp. Anatomy

BIO 3622 (4) Embryology BIO 3624 (3) Histology

BIO 3628 (4) Evolutionary Medicine BIO 3710 (3) Plant-Animal Interactions

BIO 3720 (4) Entomology BIO 3740 (3) Clinical Mycology BIO 3888G (3) Tropical/Marine Ecology BIO 3950 (3) Vertebrate Natural History BIO 3952 (3) Invertebrate Natural History BIO 3960 (1-4) Special Topics BIO 4400 (1) Teaching in the Lab BIO 4751 (3) Adv. Molec. & Cell Biol. BIO 4800 (2) Research Techniques 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 4830 (3) Comp. Vertebrate Physi-

BIO 4832 (4) Animal Behavior

BIO 3810 (3) Freshwater Ecology BIO 3850 (3) Environmental Biology

COURSE	HOURS	GRADE	SEMESTER

BIO 4833 (4) Neurobiology of Diseases BIO 4834 (4) Neurobiology

BIO 4835 (4) Advanced Neurobiology BIO 4836 (4) Pathogenic Microbiology BIO 4892 (4) Intro. Paleobotany BIO 4914 (3) Plant Anatomy

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 4984 (3) Evolutionary Biology

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.

<sup>\*</sup>Additional prerequisite classes may be required. See Undergraduate Catalog

<sup>\*</sup>BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit.

# **BACHELOR OF SCIENCES IN BIOLOGICAL SCIENCES**

## **GENERAL ELECTIVES**

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

COURSE	HOURS	GRADE	SEMESTER

# NOTES, QUESTIONS, MINOR REQUIREMENTS:

#### SUGGESTED 4-YEAR SEQUENCE

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YEAR 1 MUST EARN 30-	+ SH F	OR SOPHOMORE STATUS  SPRING			
ENG 1001G BIO 1500 CHM 1310G/1315G BIO 1150 <sup>1</sup> Gen Ed Elective	3 ENG 1002G 4 BIO 1550G 4 CHM 1410G/1415G 1 Gen Ed Elective 3 2MAT Prereq		3 4 4 3 2-3		
Total	15	Total	16-17		
YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS  FALL  SPRING					
CMN 1310G CHM 2440/2445 MAT 2110G PHY 1151G/1152G	3 4 3 4	BIO Elective BIO Elective (BIO 2210 if taking A& P Sequence) PHY 1161/1162 ¹Gen Ed Elective	3-4 3-4 4 3		
Total	14	Total	13-15		
YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS					

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FALL		SPRING					
BIO 3120 BIO 3180 BIO 3510/ BIO 3520/ OR BIO 2220 BIO 4750 OR MAT 2250G	4 4 4	BIO 3200 BIO Elective >3000 BIO Elective >3000 ¹Gen Ed Elective	4 3-4 3-4 3				
Total	16	Total	13-15				

YEAR 4 MUST EARN 120 SH TO GRADUATE FALL SPRING				
EIU 4XXXG BIO 3300/3330/OR 3340 BIO Elective >3000 BIO Elective >3000 ¹Gen Ed Elective	3 4 3-4 3-4 3	BIO Elective >3000 BIO Elective >3000 ¹Gen Ed Elective Free Elective Exit Interview	3-4 3-4 3-4 3	
Total	16-18	Total	12-15	

<sup>&</sup>lt;sup>1</sup> General Education Elective

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

Many courses have perequisites. See Undergraduate Catalog.

GRADUATION REQUIREMENTS:							
		120 Hours		2.00 Major GPA			
		40 SH of upper division courses (3000+)		Cultural Diversity			
		30 SH in residence at EIU		Application for Graduation (First semester junior year)			
		30 SH junior-senior residency		Electronic Writing Portfolio 1 2 2			
		12 SH senior residency		See www.eiu.edu/~assess/ for requirements			
		2.00 Cumulative GPA					

<sup>&</sup>lt;sup>2</sup> See Math Placement

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