

NAME
E NUMBER
CATALOG

2023-2024

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	
		COURSE	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 3720 (4) Entomology

BIO 3740 (3) Clinical Mycology

BIO 3710 (3) Plant-Animal Interactions

bio 3610 (3) Heshwater Ecology
BIO 3850 (3) Environmental Biology
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-
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BIO 4832 (4) Animal Behavior

BIO 3810 (3) Freshwater Ecology

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.

^{*}Additional prerequisite classes may be required. See Undergraduate Catalog

^{*}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

YEAR 1 MUST EARN 30- FALL	+ SH F	OR SOPHOMORE STATUS SPRING	
ENG 1001G BIO 1500 CHM 1310G/1315G BIO 1150 ¹ Gen Ed Elective	3 4 4 1 3	ENG 1002G BIO 1550G CHM 1410G/1415G ¹ Gen Ed Elective ² MAT Prereq	3 4 4 3 2-3
Total	15	Total	16-17
YEAR 2 MUST EARN 60-	+ SH F	OR JUNIOR STATUS SPRING	
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I	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
1				

YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS				
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 FALL	O SH TO	O GRADUATE 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

¹ General Education Elective

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

GI	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						

² See Math Placement

³ Take course that was not previously taken