

NAME	
E NUMBER	
CATALOG	

2024-2025

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		

SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

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

COURSE	HOURS	GRADE	SEMESTER
PSY 1879G Intro to Psychology	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 MATHEMATICS: 3 HRS

Complete in major.

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 2220+ Anatomy & Physiology II	4		
^{&} BIO 3180* Ecology & Evolution	4		
BIO 3300* General Microbiology	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 2250G° 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 2440* Organic Chemistry I	3		
CHM 2445* Organic Chemistry I Lab	1		

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

BIO 4944 (3) Lichens

BIO 4946 (3) Bryology

BIO 4950 (3) Ichthyology

BIO 4948 (3) Plant Taxonomy

MAJOR ELECTIVES: 21HRS

21 semester hours of elective course work in Biological Sciences (with the exception of BIO 3400, BIO 4275, workshops, and courses designed for General Education with the exception of BIO 3888G) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and CHM 2310). A minimum of 14 semester hours must be taken in the Biological Sciences.

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		(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
		(4) Clinical Rotation
		(3) Survey of Algae & Fungi
BIO	3612	(3) Plant Evolution & Diversity
BIO	3620	(4) Funct. Comp. Anatomy
BIO	3622	(4) Embryology
		(3) Histology
BIO	3628	(4) Evolutionary Medicine
		(3) Plant-Animal Interactions
BIO	3720	(4) Entomology
BIO	3740	(3) Clinical Mycology
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COURSE	HOURS	GRADE	SEMESTER
BIO 2210 Anatomy & Physiology I	4		
BIO 3210 [^] Immunology	4		
BIO 3624 [^] Histology	3		
CHM 2840# Organic Chemistry II	3		
CHM 2845# Organic Chemistry II Lab	1		
CHM 3450 [#] Biochemistry	3		

BIO 4833 (4) Neurobiology of Diseases	BIO 4952 (3) Herpetology
BIO 4834 (4) Neurobiology	BIO 4954 (3) Ornithology
BIO 4835 (4) Advanced Neurobiology	BIO 4956 (3) Mammalogy
BIO 4836 (4) Pathogenic Microbiology	BIO 4958 (4) Parasitology
BIO 4892 (4) Intro. Paleobotany	BIO 4960 (3) Wetland & Aqua. Vasc
BIO 4914 (3) Plant Anatomy	Plants
BIO 4920 (3) Medicinal Plants	BIO 4984 (3) Evolutionary Biology
BIO 4940 (3) Phycology	
BIO 4942 (3) Mycology	Courses numbered 5000-5499 inclus

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.

GRADUATION REQUIREMENTS:

120 Hours
40 SH of upper division courses (3000+)
30 SH in residence at EIU
30 SH junior-senior residency
12 SH senior residency
2.00 Cumulative GPA

2.00 Major GPA		
Cultural Diversity		
Application for Graduation (First semester junior year)		
Electronic Writing Portfolio 1 2 2		
See www.eiu.edu/~assess/ for requirements		

⁺BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit. #Required by some dental schools

[^]Recommended by some dental schools

[&]amp;Biological Sciences Major Requirement - Not necessarily required by dental schools Departmental Exit Interview is also required prior to leaving EIU.

BIO-DENTISTRY

A dentist is a doctor, scientist and clinician dedicated to the highest standards of health through prevention, diagnosis and treatment of oral diseases and conditions. Dentistry is a highly competitive four-year graduate program. Students should maintain a grade point average near 3.50/4.00, acquire leadership skills and exposure to the world of dentistry, and score an 18 or higher on the Dental Admission Test (DAT). Three letters of recommendation are required, typically 2 from science professors and 1 letter from a dentist.

Typically, the DAT is taken during the Spring Semester of the junior year and application through the centralized application service, Associated American Dental Schools Application Services (AADSAS), is submitted in June between the junior and senior years.

Dental schools are seeking individuals who are well rounded in their educational background. In selecting a major, identify one that will prepare you best for dental practice or a backup plan. English, biology, chemistry, psychology or sociology or health promotion with a business minor are a few majors to consider. Because of the hands-on nature of the profession, courses in art and sculpting are also useful.

WHAT MAKES YOU UNIQUE FROM OTHER APPLICANTS?

HEALTHCARE EXPERIENCE

- Volunteer or work in hospitals, clinics, nursinghomes, assisted living centers, crisis nursery, and rehab centers is beneficial.
- Shadow a specialist. Ask to volunteer or work in thier practice; seek opportunity to shadow.

LEADERSHIP EXPERIENCE

Dentists are leaders in their communities and demonstrated leadership skills are a must. Campus, church, and community organizations provide excellent leadership opportunities.

RESOURCES:

American Dental Education Association www.adea.org

American Dental Association www.ada.org/en

DAT (Dental Admissions Test) www.ada.org/dat.aspx

SUGGESTED 4-YEAR SEQUENCE

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

YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS					
FALL		SPRING			
BIO 3120 CHM 2440/2445 MAT 2110G ¹ Gen Ed Elective	4 4 3 3	BIO 3200 CHM 2840/2845 BIO 2210 ¹ Gen Ed Elective	4 4 4 3		
Total	14	Total	15		

YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS					
FALL		SPRING			
PHY 1151G/1152G (FA ONLY) BIO 2220 BIO 4750 OR MAT 2250G CHM 3450 (FA ONLY) DAT Prep	4 4 4 3	PHY 1161/1162 (SP ONLY) CMN 1310G BIO 3300 BIO Elective >3000 DAT Exam/Apply to Dental School	4 3 4 3		
Total	15	Total	14		

YEAR 4 MUST EARN 120 SH TO GRADUATE				
FALL		SPRING		
EIU 4XXXG BIO Elective >3000 Gen Ed Elective Free Elective Dental School Admission Interviews	3 3 3 3	BIO 3180 BIO Elective >3000 ¹Gen Ed Elective ³Free Elective Exit Interview	4 3 3 3	
Total	12	Total	13	

¹ General Education Elective

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

NOTES, QUESTIONS, MINOR REQUIREMENTS:

² See Math Placement

³ Take course that was not previously taken