



# BIO-DENTISTRY

## AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

2026-2027

### GENERAL REQUIREMENTS: 40 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: 56 HRS

BIOLOGY COURSES	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 3200</b> Genetics	4		
<b>BIO 2220</b> <sup>+</sup> Anatomy & Physiology II	4		
& <b>BIO 3180</b> Ecology & Evolution	4		
<b>BIO 3300</b> General Microbiology	4		
PHYSICS COURSES	HOURS	GRADE	SEMESTER
<b>PHY 1151G</b> Principles Physics I	3		
<b>PHY 1152G</b> Principles Physics I Lab	1		
<b>PHY 1161</b> Principles Physics II	3		
<b>PHY 1162</b> Principles Physics II Lab	1		

### 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.

- |   |   |
|---|---|
| <b>BIO 2210</b> (4) Anatomy and Physiology I    | <b>BIO 3810</b> (3) Freshwater Ecology                          |
| <b>BIO 3035</b> (3) Economic Botany             | <b>BIO 3850</b> (3) Environmental Biology                       |
| <b>BIO 3210</b> (4) Immunology                  | <b>BIO 3888G</b> (3) Tropical/Marine Ecology                    |
| <b>BIO 3312</b> (3) Horticulture                | <b>BIO 3950</b> (3) Vertebrate Natural History                  |
| <b>BIO 3322</b> (3) Dendrology                  | <b>BIO 3952</b> (3) Invertebrate Natural History                |
| <b>BIO 3330</b> (4) Introduction to Botany      | <b>BIO 3960</b> (1-4) Special Topics                            |
| <b>BIO 3340</b> (4) Zoology                     | <b>BIO 4400</b> (1) Teaching in the Lab                         |
| <b>BIO 3450</b> (1-3) Independent Study         | <b>BIO 4751</b> (3) Adv. Molec. & Cell Biol.                    |
| <b>BIO 3451</b> (1-3) Undergraduate Research    | <b>BIO 4800</b> (2) Research Techniques                         |
| <b>BIO 3460</b> (4) Clinical Rotation           | <b>BIO 4810</b> (4) Plant Ecology                               |
| <b>BIO 3610</b> (3) Survey of Algae & Fungi     | <b>BIO 4812</b> (3) Fisheries Ecology & Mgmt                    |
| <b>BIO 3612</b> (3) Plant Evolution & Diversity | <b>BIO 4814</b> (3) Conservation Biology                        |
| <b>BIO 3620</b> (4) Funct. Comp. Anatomy        | <b>BIO 4816</b> (3) Biotic Communities                          |
| <b>BIO 3622</b> (4) Embryology                  | <b>BIO 4818</b> (4) Environmental Microbiology                  |
| <b>BIO 3624</b> (3) Histology                   | <b>BIO 4820</b> (4) Spatial Analysis for Environmental Sciences |
| <b>BIO 3628</b> (4) Evolutionary Medicine       | <b>BIO 4830</b> (3) Comp. Vertebrate Physiology                 |
| <b>BIO 3710</b> (3) Plant-Animal Interactions   | <b>BIO 4832</b> (4) Animal Behavior                             |
| <b>BIO 3720</b> (4) Entomology                  |   |
| <b>BIO 3740</b> (3) Clinical Mycology           |   |

### SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

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

COURSE	HOURS	GRADE	SEMESTER
<b>PSY 1879G</b> <sup>#</sup> 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
<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.

MATH COURSES	HOURS	GRADE	SEMESTER
& <b>MAT 2110G</b> Brief Calculus	3		
<b>BIO 4750</b> Statistic Anly of Sci Data <b>OR MAT 2250G</b> Elementary Statistics	4		
CHEMISTRY COURSES	HOURS	GRADE	SEMESTER
<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 2440</b> Organic Chemistry I	3		
<b>CHM 2445</b> Organic Chemistry I Lab	1		

\*Additional prerequisite classes may be required. See Undergraduate Catalog +BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit.

<sup>#</sup>Required by some dental schools

<sup>^</sup>Recommended by some dental schools

<sup>&</sup>Biological Sciences Major Requirement - Not necessarily required by dental schools  
Departmental Exit Interview is also required prior to leaving EIU.

COURSE	HOURS	GRADE	SEMESTER
<b>BIO 2210</b> Anatomy & Physiology I	4		
<b>BIO 3210</b> <sup>+</sup> Immunology	4		
<b>BIO 3624</b> <sup>+</sup> Histology	3		
<b>CHM 2840</b> <sup>#</sup> Organic Chemistry II	3		
<b>CHM 2845</b> <sup>#</sup> Organic Chemistry II Lab	1		
<b>CHM 3450</b> <sup>#</sup> Biochemistry	3		

- |  |  |
|--|--|
| <b>BIO 4833</b> (4) Neurobiology of Diseases | <b>BIO 4952</b> (3) Herpetology                  |
| <b>BIO 4834</b> (4) Neurobiology             | <b>BIO 4954</b> (3) Ornithology                  |
| <b>BIO 4835</b> (4) Advanced Neurobiology    | <b>BIO 4956</b> (3) Mammalogy                    |
| <b>BIO 4836</b> (4) Pathogenic Microbiology  | <b>BIO 4958</b> (4) Parasitology                 |
| <b>BIO 4892</b> (4) Intro. Paleobotany       | <b>BIO 4960</b> (3) Wetland & Aqua. Vasc. Plants |
| <b>BIO 4914</b> (3) Plant Anatomy            | <b>BIO 4984</b> (3) Evolutionary Biology         |
| <b>BIO 4920</b> (3) Medicinal Plants         |  |
| <b>BIO 4940</b> (3) Phycology                |  |
| <b>BIO 4942</b> (3) Mycology                 |  |
| <b>BIO 4944</b> (3) Lichens                  |  |
| <b>BIO 4946</b> (3) Bryology                 |  |
| <b>BIO 4948</b> (3) Plant Taxonomy           |  |
| <b>BIO 4950</b> (3) Ichthyology              |  |

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:

- |  |
|--|
| <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                         |

# 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 competitively 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, nursing homes, assisted living centers, crisis nursery, and rehab centers is beneficial.
- Connect with a specialist. Ask to shadow, volunteer, or work in their practice.

### LEADERSHIP EXPERIENCE

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

## RESOURCES:

**American Dental Education Association**  
[www.adea.org](http://www.adea.org)

**American Dental Association**  
[www.ada.org/en](http://www.ada.org/en)

**DAT (Dental Admissions Test)**  
[www.ada.org/dat](http://www.ada.org/dat)

## SUGGESTED 4-YEAR SEQUENCE

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	3
Total		15	Total
			17
YEAR 2 MUST EARN 60+ SH FOR JUNIOR STATUS			
FALL		SPRING	
BIO 3120	4	BIO 3200	4
CHM 2440/2445	4	CHM 2840/2845	4
MAT 2110G	3	BIO 2210	4
<sup>1</sup> Gen Ed Elective	3	<sup>1</sup> Gen Ed Elective	3
Total		14	Total
			15
YEAR 3 MUST EARN 90+ SH FOR SENIOR STATUS			
FALL		SPRING	
PHY 1151G/1152G (FA ONLY)	4	PHY 1161/1162 (SP ONLY)	4
BIO 2220	4	CMN 1310G	3
BIO 4750 OR MAT 2250G	4	BIO 3300	4
CHM 3450 (FA ONLY)	3	BIO Elective >3000	3
DAT Prep		DAT Exam/Apply to Dental School	
Total		15	Total
			14
YEAR 4 MUST EARN 120 SH TO GRADUATE			
FALL		SPRING	
EIU 4XXXG	3	BIO 3180	4
BIO Elective >3000	3	BIO Elective >3000	3
<sup>1</sup> Gen Ed Elective	3	<sup>1</sup> Gen Ed Elective	3
<sup>3</sup> Free Elective	3	<sup>3</sup> Free Elective	3
Dental School Admission Interviews		Exit Interview	
Total		12	Total
			13

<sup>1</sup> General Education Elective

<sup>2</sup> See Math Placement

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

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

Many courses have prerequisites. See Undergraduate Catalog.

## NOTES, QUESTIONS, MINOR REQUIREMENTS: