



BIO-DENTISTRY

DEPARTMENT OF BIOLOGICAL SCIENCES
AT EASTERN ILLINOIS UNIVERSITY

NAME	
E NUMBER	
CATALOG	

F17

GENERAL EDUCATION: 30-38 HRS

LANGUAGE: 9 HRS

Course	Hours	Grade	Semester
ENG 1001G Composition & Language	3		
ENG 1002G Composition & Literature	3		
CMN 1310G Intro to Speech	3		

Grade of "C" or better is required

SCIENCE AWARENESS: 7HRS

Completed in major.

MATHEMATICS: 3-5 HRS

Completed in major.

HUMANITIES/FINE ARTS: 9 HRS

Course	Hours	Grade	Semester
Humanities	3		
Fine Arts	3		
Humanities / Fine Arts	3		

SOCIAL/BEHAVIORAL SCIENCES*: 9 HRS

Course	Hours	Grade	Semester
PSY 1879G Intro to Psychology	3		
SOC 1838G Intro to Sociology	3		
	3		

* One course must meet Cultural Diversity requirement.

SENIOR SEMINAR: 3 HRS

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Seminar topic must be outside the major area. See Undergraduate Catalog for Senior Seminars that exclude Biological Sciences majors.

FOREIGN LANGUAGE: 0-8 HRS

EXEMPT? YES NO

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

SCIENCE CORE: 51-53 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 and Evolution	4		
Physics Courses	Hours	Grade	Semester
PHY 1151G* Principles Physics I	3		
PHY 1152G* Principles Physics I Lab	1		
PHY 1161G* Principles Physics II	3		
PHY 1162G* 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* Elementary 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		

*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.

*Additional prerequisite classes may be required. See Undergraduate Catalog

*BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit.

MAJOR ELECTIVES: 21 HRS

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 Anatomy & Physiology I	4		
BIO 3300 General Microbiology	4		
BIO 3624 Histology	3		
CHM 2840 Organic Chemistry II	3		
CHM 2845 Organic (Lab) Chemistry II	1		
CHM 3450 Biochemistry	3		

BIO 2210 (4) Anatomy and Physiology I
 BIO 3210 (4) Immunology
 BIO 3300 (4) General Microbiology
 BIO 3312 (3) Horticulture
 BIO 3322 (3) Dendrology
 BIO 3450 (1-3) Independent Study
 BIO 3451 (1-3) Undergraduate Research
 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 3690 (4) Clinical Rotation
 BIO 3700 (4) Parasitology
 BIO 3710 (3) Plant-Animal Interactions
 BIO 3720 (4) Entomology
 BIO 3740 (3) Clinical Mycology
 BIO 3810 (3) Freshwater 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 Physiology
 BIO 4832 (4) Animal Behavior
 BIO 4833 (4) Neurobiology of Diseases
 BIO 4834 (3) Neurobiology
 BIO 4835 (3) 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 4960 (3) Wetland & Aqua. Vasc. Plants
 BIO 4984 (3) Organic Evolution

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.

BE PREPARED: UPDATE THIS FORM BEFORE MEETING WITH YOUR ADVISOR

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 the sciences and 1 letter of the student are choosing.

Typically, the DAT is taken during the Spring Semester of the junior year, and application through a 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 psychology 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