

NAME	
E NUMBER	
CATALOG	

2025-2026

GENERAL REQUIREMENTS: 30-38 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		
SOC 1838G# Intro to Sociology	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		

NAATH OOLIBSES	1101100	65455	651456755
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		

^{*}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.

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 Physi-
ology
BIO 4832 (4) Animal Behavior

COURSE	HOURS	GRADE	SEMESTER
BIO 2210 Anatomy & Physiology	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 See www.eiu.edu/~assess/ for requirements		
See www.eiu.edu/~assess/ for requirements		

Additional prierequisite casses may be required, see Ordergraduate Catalog +BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit. #Required by some medical schools

^{*}Recommended by some medical schools

& Biological Sciences Major Requirement - Not necessarily required by medical schools

BIO-MEDICINE

Admission into medical school is very competitive. Students should maintain a grade point average near or above 3.50/4.00, acquire leadership skills, exposure to healthcare, and score competitively on the Medical College Admission Test (MCAT). Preparation materials from the Association of American Medical Colleges (AAMC) can be found at www. aamc.org/students/applying/mcat/preparing/. Typically the MCAT is taken during the Spring Semester of the junior year, and an application through a centralized application service American Medical College Application Service (AMCAS) is submitted in June between the junior and senior years. Apply Early! At least three letters of recommendation are required, typically 2 from science professors and 1 letter from a physician.

Above are the courses required for a B.S. Degree in Biological Sciences and courses typically required or recommended to be considered for medical school admission. As long as the requirements are met, identifying an undergraduate major is based completely on the student's interests and goals. Medical schools do not favor any particular major. Most importantly medical schools are seeking individuals who are well rounded in their educational background. Development of a strong vocabulary and communication skills are as important as any particular class. The best way to do this is to READ READ READ.

Additional information from the national associations of allopathic and osteopathic medicine can be found at www.aamc.org or www.aacom.org.

WHAT MAKES YOU UNIQUE FROM OTHER APPLICANTS? HEALTHCARE EXPERIENCE

- Volunteer or work experience in hospitals, clinics, nursing homes, assisted living centers, crisis nursery, and rehab centers is beneficial.
- Shadow a specialist. Ask to volunteer or work in their practice.

RESEARCH EXPERIENCE

Working in a research setting can help make you a competitive medical school applicant and help you to determine if a career in medicine or medical research is right for you.

LEADERSHIP EXPERIENCE

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

SUGGESTED 4-YEAR SEQUENCE

YEAR 1 MUST EARN 30+ SH FOR SOPHOMORE STATUS						
FALL	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						
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) MCAT Prep	4 4 4 3	PHY 1161/1162 (SP ONLY) BIO 3300 BIO Elective >3000 CMN 1310G MCAT Exam/Apply to	4 4 3 3			

I LAK 4 MUSI EA	KIN 120	30 10	GRADUALE
FALL			

Total

15

FALL		SPRING	
EIU 4XXXG BIO Elective >3000 ¹Gen Ed Elective ³Free Elective Medical School Admission Interviews	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 ² See Math Placement

Medical School

Total

14

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

Many courses have prerequisites. See Undergraduate Catalog.

ALLOPATHIC MEDICINE RESOURCES (M.D.):

Association of American Medical Colleges (Allopathic Medicine) *students-residents.aamc.org*



/AAMCpremed



@AAMCpremed

MSAR (Allopathic Medical School Admission Requirements) *aamc.org/msar*

- MSAR Online: subscription to this online database allows you to browse, search, sort, and compare data on U.S. and Canadian Medical schools and PhD/MPH/M.D. programs
- The Official Guide to Medical School Admissions: How to Prepare for and Apply to Medical School From the organization that administers the MCAT® exam and the AMCAS® (American Medical College Application Service) application, this comprehensive guide is the authoritative source of information on medical school admissions and is packed with crucial information, and expert tips, on the admissions process.

OSTEOPATHIC MEDICINE RESOURCES (D.O.)

American Association of Colleges of Osteopathic Medicine AACOM.org



/AACOMAS



@AACOMASPreMed

Choose DO

choosedo.org

Learn more about osteopathic medical education with the Choose DO Explorer, a fully searchable database that allows you to explore all of the accredited colleges of osteopathic medicine in the United States. Easily navigate application deadlines, tuition rates, and other important stats with just a few clicks.

MCAT Preparation through AAMC

mcatofficialprep.org

Set up an account to access FREE resources for MCAT prep, create a study plan, access practice questions and more.

³ Take course that was not previously taken