

#### **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		

#### **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 <sup>*</sup> Genetics	4		
BIO 2220 <sup>+</sup> Anatomy & Physiology II	4		
BIO 3180 <sup>*</sup> 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		

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

BIO 3740	(3)	Clinical Mycology

# MAT 2440C\* Dutof Coloulus

MAI 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 <sup>*</sup> General Chemistry II	3		
CHM 1415 <sup>*</sup> General Chemistry II Lab	1		
CHM 2440* Organic Chemistry I	3		
CHM 2445 <sup>*</sup> 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. #Required by some medical schools ^Recommended by some medical schools

BIO 4946 (3) Bryology

BIO 4950 (3) Ichthyology

BIO 4948 (3) Plant Taxonomy

COURSE	HOURS	GRADE	SEMESTER
BIO 2210 Anatomy & Physiology	4		
BIO 3210 <sup>^</sup> Immunology	4		
BIO 3624 <sup>^</sup> Histology	3		
CHM 2840 <sup>#</sup> Organic Chemistry II	3		
CHM 2845 <sup>#</sup> Organic Chemistry II Lab	1		
CHM 3450 <sup>#</sup> Biochemistry	3		
BIO 4833 (4) Neurobiology of Diseases BIO 4834 (4) Neurobiology BIO 4835 (4) Advanced Neurobiology BIO 4836 (4) Pathogenic Microbiology	BIO 4952 BIO 4954 BIO 4956 BIO 4958	(3) Ornith (3) Mamm	ology nalogy
BIO 4892 (4) Pathogenic Microbiology BIO 4892 (4) Intro. Paleobotany BIO 4914 (3) Plant Anatomy			nd & Aqua. Va
BIO 4920 (3) Medicinal Plants BIO 4940 (3) Phycology	BIO 4984	(3) Evoluti	ionary Biology
BIO 4942 (3) Mycology BIO 4944 (3) Lichens			5000-5499 incl

#### isive, 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	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
12 SH senior residency	See www.eiu.edu/~assess/ for requirements
2.00 Cumulative GPA	

# NAME E NUMBER CATALOG

3

3 3

HOURS GRADE SEMESTER

2023-2024

Complete in major.

requirement PSY 1879G Intro to Psychology SOC 1838G Intro to Psychology

SOCIAL/BEHAVIORAL SCIENCE: 9 HRS

### 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		

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

SCIENCE AWARENESS: 7 HRS MATHEMATICS: 3 HRS

Complete in major.	

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# **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 at least a 27 or higher 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 expereince in hospitals, clinics, nursing homes, 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.

#### 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.

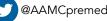
#### LEADERSHIP EXPERIENCE

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

## ALLOPATHIC MEDICINE RESOURCES (M.D.):

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





**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.

# 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 <sup>1</sup> Gen Ed Elective	3 4 4 1 3	ENG 1002G BIO 1550G CHM 1410/1415 <sup>1</sup> Gen Ed Elective <sup>2</sup> MAT Prereq	3 4 4 3 3
Total	15	Total	17
YEAR 2 MUST EARN 60+ FALL	SH F	OR JUNIOR STATUS <b>SPRING</b>	
BIO 3120 CHM 2440/2445 MAT 2110G <sup>1</sup> Gen Ed Elective	4 4 3 3	BIO 3200 CHM 2840/2845 BIO 2210 <sup>1</sup> Gen Ed Elective	4 4 4 3
Total	14	Total	15
YEAR 3 MUST EARN 90+ FALL	SH F	OR SENIOR STATUS SPRING	
PHY 1151G/1152G (FA ONLY)			
BIO 2220 BIO 4750 OR MAT 2250G CHM 3450 (FA ONLY) MCAT Prep	4 4 3	PHY 1161/1162 (SP ONLY) BIO 3300 BIO Elective >3000 CMN 1310G MCAT Exam/Apply to Medical School	4 4 3 3
BIO 2220 BIO 4750 OR MAT 2250G CHM 3450 (FA ONLY)	4 4	BIO 3300 BIO Elective >3000 CMN 1310G MCAT Exam/Apply to	4 3
BIO 2220 BIO 4750 OR MAT 2250G CHM 3450 (FA ONLY) MCAT Prep	4 4 3	BIO 3300 BIO Elective >3000 CMN 1310G MCAT Exam/Apply to Medical School Total	4 3 3

<sup>1</sup> General Education Elective

Admission Interviews

<sup>2</sup> See Math Placement

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

Total

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

12

Total

13

# OSTEOPATHIC MEDICINE RESOURCES (D.O.)

American Associatin of Colleges of Osteopathic Medicine AACOM.org





#### 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.

The above information is designed for advising purposes only and is not intended to serve as the final or official determination of program requirements. Please consult the EIU undergraduate catalog for additional program information and/or requirements.