

# PRE-MEDICINE

<b>Undergraduate Credit Required</b>	Bachelor's degree
<b>Entrance Exam</b>	MCAT
<b>Professional Schooling Required</b>	4 years medical school; 3-8 years residency; M.D. or Doctor of Osteopathy degrees
<b>Local Professional Schools</b>	UNMC (M.D.); Creighton University (M.D.)
<b>Professional Organization Websites</b>	aamc.org (Association of American Medical Colleges); aacom.org (Osteopathic Medicine)

## REQUIRED AND SUGGESTED ELECTIVES FOR CURRENTLY ENROLLED UNL UNDERGRADUATE STUDENTS

The following course recommendations fulfill the requirements for UNMC's and Creighton University's MD programs. Students who are considering medical schools outside of Nebraska are encouraged to contact those schools for a list of entrance requirements.

**AP/IB Credit:** Not accepted for prerequisites at UNMC; Creighton University will accept up to 3 hours AP for English only.

**Math Requirement:** Some required science courses, like chemistry, require math as a prerequisite. See your pre-health advisor for math placement information. A calculus or statistics course may also be required by the medical school (see below for options).

## MEDICAL SCHOOL REQUIREMENTS

Biological Sciences with labs (min. 2 courses)		
LIFE 120/120L, LIFE 121/121L, or BIOS 213/213L (BIOS 213/213L required by Creighton)		
Course	Term	Grade
Genetics – 1 course (UNMC only; required prerequisite for BIOC 432 and MCAT content)		
BIOS 206 or AGRO 215 (see advisor for recommended genetics course)		
Course	Term	Grade
General Chemistry with lab – 1 series		
CHEM 109A/109L* and 110A/110L* or 113A/113L*, 114, and 221		
Course	Term	Grade
CHEM		
CHEM		
Organic Chemistry with lab – 1 series		
CHEM 251/253 and 252/254 or 261/263 and 262/264		
Course	Term	Grade
CHEM		
CHEM		
Biochemistry – 1 course		
BIOC 431		
Course	Term	Grade
BIOC		
Physics with lab – 1 series (UNMC Only; MCAT content)		
PHYS 141 and 142 or 211/221 and 212/222		
Course	Term	Grade
PHYS		
PHYS		

English Composition – 3-6 hours (UNMC requires 3; Creighton requires 6)		
ENGL 150, 151, 254, or 354 (or writing intensive English Literature)		
Course	Term	Grade
ENGL		
ENGL		
Calculus or Statistics – 1 course (Creighton requires statistics; a statistics course may be helpful for the MCAT)		
MATH 104, 106, STAT 218, STAT 380, EDPS 459, PSYC 350, ECON 215		
Course	Term	Grade

## SUGGESTED ELECTIVES

- **Metabolism & Biological Information** (*strongly recommended by UNMC; covers MCAT content*): BIOC 432
- **Human Physiology** (*required by Creighton; covers MCAT content*): BIOS 213/213L
- **Human Anatomy**: BIOS 214
- **Molecular Biology**: BIOS 303
- **Microbiology**: BIOS 312
- **Cancer Biology**: BIOS 402
- **Advanced Genetics**: BIOS 418
- **Immunology**: BIOS 443

\*CHEM 109A/109L are equivalent to CHEM 109; CHEM 110A/110L are equivalent to CHEM 110; CHEM 113A/113L are equivalent to CHEM 113.

Suggested Sequence of Required and Recommended Science Courses*	
<b>Semester 1</b> General Chemistry I with lab* Math *Some students may take LIFE 120/120L instead of Chemistry (see your advisor)	<b>Semester 2</b> General Chemistry II with lab LIFE 120/120L
<b>Semester 3</b> Organic Chemistry I with lab LIFE 121/121L	<b>Semester 4</b> Organic Chemistry II with lab Physics I with lab BIOS 206 or AGRO 215 (or semester 5)
<b>Semester 5</b> BIOC 431 Physics II with lab	<b>Semester 6</b> BIOC 432 (MCAT content) BIOS 213/213L (MCAT content)
<b>**Take the MCAT during Semester 6 or before Semester 7 (or 12-16 months before you intend to start medical school.)</b>	
<b>Semester 7</b> Suggested electives Suggested electives	<b>Semester 8</b> BIOS 214 (suggested elective) Suggested electives

\*Sequence may vary from above depending on declared major requirements

#### EXTRACURRICULAR INVOLVEMENT & ACTIVITIES

Pursuing medical school requires more than just coursework. Your extracurricular activities, employment, and healthcare experiences like shadowing and volunteering will contribute greatly to your success in this field. See your pre-health advisor in the Explore Center to plan extracurricular activities that will prepare you for this program.

#### APPLICATION AND ADMISSION

- Applications: There are three centralized application services, the American Medical College Application Service (AMCAS), the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS), and the Texas Medical and Dental Schools Application Service (TMDSAS). Application for admission to UNMC, Creighton, and most other medical schools is made through AMCAS. Applications to MD and DO programs through application services are available at [apps.aamc.org/account](https://apps.aamc.org/account) (allopathic) or [aacomas.liasoncas.org](https://aacomas.liasoncas.org) (osteopathic). AMCAS, AACOMAS, and TMDSAS will duplicate your application and forward it to the medical schools you are interested in. The schools will then contact you to verify your receipt of your application and inform you of any additional materials they require to complete your application, such as secondary applications and letters of recommendation/evaluation.
- Entrance exam: The Medical College Admissions Test (MCAT) is required. The MCAT is a computer-based exam that is offered on set dates throughout the year. Information about the exam, registration, and the Official Guide to the MCAT can be found online at [students-residents.aamc.org/applying-medical-school/taking-mcat-exam](https://students-residents.aamc.org/applying-medical-school/taking-mcat-exam). Students should obtain this publication as soon as possible and use it as a guide while preparing for the MCAT exam.
- Additional admission requirements: Applications to medical school require a personal statement and letters of recommendation/evaluation. The number of required letters varies by school. UNMC requires recommendations from two instructors, at least one of whom teaches in a pre-health science discipline. Creighton University recommends three letters, consisting of two science faculty and one non-science faculty. You should get to know your professors so that they know you well enough to write a thorough letter about your potential to be a successful medical student.

#### ADDITIONAL RESOURCES

Explore Health Careers: [explorehealthcareers.org](https://explorehealthcareers.org)

#### **UNMC School of Medicine**

Omaha, NE  
[unmc.edu/com](https://unmc.edu/com)  
[comadmissions@unmc.edu](mailto:comadmissions@unmc.edu)  
(402) 559-4283

#### **Creighton University School of Medicine**

Omaha, NE  
[medschool.creighton.edu](https://medschool.creighton.edu)  
[medadmissions@creighton.edu](mailto:medadmissions@creighton.edu)  
(800) 325-4405

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### **Explore Center**

Love Library South 127 | [explorecenter@unl.edu](mailto:explorecenter@unl.edu)  
402-472-3605 | [explorecenter.unl.edu](https://explorecenter.unl.edu)

  UNL Explore Center



Courses Covering MCAT content
LIFE 120/120L LIFE 121/121L BIOS 213/213L BIOS 206 or AGRO 215 (prerequisite for BIOC 432) CHEM 109A/109L* & 110A/110L* or 113A/113L* & 114 CHEM 251/253 & 252/254 or 261/263 & 262/264 PHYS 141 & 142 or 211 & 212 BIOC 431 BIOC 432 PSYC 181 SOCI 101
Statistical reasoning skills tested on the MCAT may be obtained through science courses or through taking a statistical methods course (see front for options).
<b>Meet with your Explore Center advisor to develop your MCAT preparation plan.</b>