

# Preprofessional and Allied Health Advising Center

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## Pre-Med Advising

### **Medical programs have the following required courses:**

- 1 Year of Introductory Biology with lab
- 1 Year of Inorganic Chemistry with lab
- 1 Year of Organic Chemistry with lab
- 1 Year of Physics with lab
- At least 1 course in Biochemistry

### **Introductory Biology Requirement**

BIOL 1011 (4 cr) Evolution, Heredity, and Biodiversity  
BIOL 1021 (1cr) Evolution, Heredity, and Biodiversity Lab  
BIOL 1010 (4 cr) Physiological Systems  
BIOL 1020 (1cr) Physiological Systems lab  
BIOL 2120 Cell Structure and Function (4cr)  
BIOL 2125 Cell Structure lab (1 cr)

### **Inorganic Chemistry Requirement**

CHEM 1010 General Chemistry (3 cr)  
CHEM 1240 General Chemistry Lab (1 cr)  
CHEM 2011 Analysis of Equilibrium (3 cr)  
CHEM 2041 Analysis of Equilibrium Lab (1 cr)  
CHEM 2131 Chemistry of the Elements (3 cr)  
CHEM 2141 Chemistry of the Elements (1 cr)

### **Organic Chemistry Requirement**

CHEM 2451 Organic Chemistry I (3 cr)  
CHEM 2461 Organic Chemistry Lab (1 cr)  
CHEM 2452 Organic Chemistry II (3 cr)  
CHEM 2462 Organic Chemistry II Lab (1 cr)  
CHEM 2453 Organic Chemistry III (3 cr)  
CHEM 2463 Organic Chemistry Lab (1 crt)

### **Biochemistry Required for MCAT 2015**

CHEM 3811 Biochemistry I - Proteins (3 cr)  
CHEM 3812 Biochemistry II – Metabolism (recommended for 2015 MCAT)

### **Calculus Requirement**

The Calculus requirement is quite variable. Calculus is not on the MCAT. Check with the schools that you are considering for specific requirements.

Calculus (usually taken in years 1 or 2):

MATH 1951 – Calculus I (4 credits)

MATH 1952 – Calculus II (4 credits)

MATH 1953 – Calculus III (4 credits)

### **Physics Requirement**

The physics portion of the MCAT is algebra based.

General physics (algebra-based):

PHYS 1111 General Physics I (5 credits and includes the lab)

PHYS 1112 Gen. Physics II (5 credits and includes the lab)

PHYS 1113 Gen Physics III (5 credits and includes the lab)

### **Social Science Recommendation**

For 2015 MCAT – there will be a Social Science Section; strongly recommended courses:

PSYC 1001 Foundations of Psychological Science

**and**

SOCI 1810 Understanding Social Life

### **Courses helpful for the MCAT**

BIOL 3250 Human Physiology

BIOL 3650 Endocrinology

### **Courses that helpful for the first year of Medical School**

BIOL 2510 General Genetics

BIOL 3100 Histology

BIOL 3120 General Microbiology

BIOL 3250 Human Physiology

BIOL 3640 Introductory Neurobiology

BIOL 3650 Endocrinology

BIOL 3670 Immunology

BIOL 3800 Human Molecular Biology

BIOL 3910 Viruses and Infectious Human Diseases

### **Courses that would be helpful for preparing for an interview**

PHIL 2700 Biomedical Ethics (a medical ethics course is also offered by the Biology Department)

See the Department of International Studies for courses on Health Care Policy.

For Help with curriculum planning schedule a meeting with the Director using the contact information above.

Recommended Course Schedule for the Required Courses

<b>Year 1</b>	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
	CHEM 1010	CHEM2451	CHEM 2452
	CHEM 1240	CHEM 2461	CHEM 2462
		BIOL 1011	BIOL 1010
		BIOL 1021	BIOL 1020
<b>Year 2</b>	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
	CHEM 2453	CHEM 2011	CHEM 2131
	CHEM 2462	CHEM 2041	CHEM 2141
	BIOL 2120		
	BIOL 2125		
<b>Year 3</b>	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
	PHYS 1111*	PHYS 1112	PHYS 1113

\*PHYS 1111 can be taken in the first summer session after the 2<sup>nd</sup> year at DU, and then Fall of the 3<sup>rd</sup> Year will be open for Study Abroad.

**Biochemistry majors should contact the Chemistry Department to determine the best year for taking the physics sequence.**