

*University of Indianapolis – Shaheen College of Arts & Sciences*  
**2025-2026 Curriculum Guide for the Pre-Medical Program (PMED)**  
 Professional Studies Concentration

### **The Pre-Medical Program**

As a student interested in a career as a physician, you must complete a number of courses required for admission to medical school. These courses also will help you prepare for the MCAT (Medical College Admission Test), a test that you will take as part of the medical college admissions process. (These prerequisites are listed on the reverse side of this sheet.) The courses required for admission to medical school do not compose an undergraduate major; therefore, you must also select a major in at least one academic discipline.

You may select any major offered at the University of Indianapolis, but you should consider one that will allow you to complete both major courses and medical school prerequisites simultaneously. Your faculty advisor and Academic Advisor in CASA can assist you in making your choice of a major.

### **Advising**

You will be assigned a faculty member in your major area who will serve as your faculty advisor. S/he will advise you regarding major and general education core requirements. Dr. Joe Burnell (Chemistry) or Dr. Dean Wiseman (Biology), are the pre-professional advisors who will assist you in fulfilling medical school prerequisites. Each semester you should consult with Dr. Burnell or Dr. Wiseman, as well as with your faculty advisor, to ensure that you are making satisfactory progress in all phases of your program.

### **Criteria for Admission to Medical School**

Admission to medical school is highly competitive. An applicant must have at least a B+ average, must score above the national average on the MCAT, and must have the recommendation of undergraduate faculty members responsible for the pre-medical program. Your success in achieving a high grade point average, scoring well on the MCAT, and receiving high recommendations from faculty members will be determined by your total college experience. You should, therefore, begin your undergraduate years with a commitment to achieving your goal of being admitted to medical school and ultimately to becoming a physician.

### **Application for Medical School**

Application for medical school must be made early in the fall prior to the year you wish to be accepted. The MCAT should be taken in the spring preceding application. Application for the MCAT is made on-line through the AAMC (Association of American Medical Colleges - <https://students-residents.aamc.org/applying-medical-school/taking-mcat-exam/>). Applications to AAMC member medical schools are made on-line through the AMCAS application service (<http://www.aamc.org/students/amcas/>). Application to non-AAMC member medical schools are made directly to the institution involved.

### **Courses Required for the Pre-Medical Program**

The curriculum represented is based on the material on which candidates are tested on the MCAT and on minimum requirements for AAMC member medical schools. This represents the majority of the medical schools in the United States and the majority of the schools to which University of Indianapolis students apply. Students interested in applying to non-AAMC member schools should contact the schools directly to determine requirements specific to those schools.

### **Required (Based on guidelines for the 2015 MCAT Examination)**

#### **Freshman Year**

##### **Semester I**

- **BIOL 155** Introduction to the Diversity of Life (4)
- **CHEM 150** General Chemistry I (3) **and CHEM 151** General Chemistry Lab I (1)

##### **Semester II**

- **BIOL 165** Introduction to Cell Biology (4)
- **CHEM 160** General Chemistry II (3) **and CHEM 161** General Chemistry Lab II (1)

- SOC 101 Principles of Sociology (3) **or**
- SOC 103 Social Problems (3)

**Sophomore Year**

- CHEM 250 Organic Chemistry I (3) **and** CHEM 251 Organic Chemistry Lab I (2)
- CHEM 260 Organic Chemistry II (3) **and** CHEM 261 Organic Chemistry Lab II (2)
- PSY 120 Introduction to Psychology (3)

**Junior Year**

- CHEM 320 Biochemistry I (3)
- PHYS 150 General Physics I (4) **and**
- PHYS 160 General Physics II (4) **or**
- PHYS 153 General Physics I, Calculus Based (4) **and**
- PHYS 163 General Physics II, Calculus Based (4)
- MATH 220 Elementary Statistics (4) **or**
- MATH 245 Statistics for the Sciences (4)

**Courses Recommended for the Pre-Medical Program**

- BIOL 335 Cell Biology (4) \*
- BIOL 225 Introduction to Genetics (4) \*
- BIOL 220 General Microbiology (4)
- BIOL 300 Internship Health/Life Science (1-4)
- BIOL 305 Human Functional Anatomy (4)
- BIOL 325 Advanced Genetics (4)
- BIOL 330 Biomedical Physiology (4) \*
- BIOL 390 Molecular Biology (4)
- CHEM 395 Biochemistry II (3)
- PSY 230 Brain and Behavior (3)
- PSY 315 Readings in Social & Health Psychology (3)

\*Strongly recommended for MCAT preparation.

**REMEMBER:** If you have any questions about the Pre-Medical Program, contact Dr. Joe Burnell: 788-3284, Lilly Science Hall, Room 332E; or Dr. Dean Wiseman: 788-3282, Lilly Science Hall, Room 110E. Courses and requirements sometimes change so keep in contact with your advisor.