

*University of Indianapolis – Shaheen College of Arts & Sciences*  
**202-2025 Curriculum Guide for the Pre-Pharmacy Program (PPHM)**  
Professional Studies Concentration

### **The Pre-Pharmacy Program**

As a student interested in a career as a pharmacist, you must complete a number of courses required for admission to pharmacy school. These courses also will help you prepare for the PCAT (Pharmacy College Admission Test), a test that you will take as part of the admissions process for many, but not all, schools of pharmacy. The course prerequisites are based on those required for admission to the Pharm.D. program of the Purdue University College of Pharmacy, and are listed on the reverse side of this sheet. For students interested in attending or applying to schools other than Purdue, be aware that schools of pharmacy set their own lists of prerequisite courses and requirements for admission. Each school to which a student is intending to apply should be consulted for specific course requirements.

The courses required for admission to pharmacy 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 pre-pharmacy 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 to serve as your faculty advisor. S/he will advise you regarding major and general education core requirements. Dr. Joe C. Burnell, Department of Chemistry, is the pre-professional advisor who will assist you in fulfilling pharmacy prerequisites. Each semester you should consult with him 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 Pharmacy School**

Admission to pharmacy school is competitive. An applicant must have at least a B+ average and must have the recommendation of undergraduate faculty members responsible for courses in the pre-pharmacy program. In addition, you should arrange to get some experience working, interning, or shadowing in and around pharmacy practice so that you have an understanding of the working conditions in pharmacy careers. Your success in achieving a high grade point average and receiving high recommendations from faculty members will be determined by your total college experience.

### **Application for Pharmacy School**

Application for pharmacy school must be made in the fall prior to the year you wish to be accepted. If required, the PCAT should be taken prior to the time of application. (See the American Association of Colleges of Pharmacy Web site: <http://www.aacp.org/> for more information.) Application to pharmacy school can be made as soon as prerequisite courses are or will be completed. However, in order to receive a degree from the University of Indianapolis upon early admission to the graduate program, a student must complete all requirements for admission to the graduate program, complete at least 90 undergraduate hours, complete all requirements of the core curriculum, make satisfactory progress in the major (consult the major department), and successfully complete the first year of the graduate program.

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

This list of courses is based on those required for admission to the Purdue University College of Pharmacy for admission into their Pharm.D. program. As of 2008, the University of Indianapolis is listed as one of the “Partner Schools” of the Purdue program (see <https://www.pharmacy.purdue.edu/future-students/admissions/pre-pharm/campus-pre-pharmacy-curricula> for details). For students interested in attending or applying to schools other than Purdue, be aware that schools of pharmacy set their own lists of prerequisite courses and requirements for admission. Each school to which a student is intending to apply should be consulted for specific course and admissions testing requirements.

**Freshman Year****Semester I**

- ENGL 101 Intro to College Writing (3 credits)
- CHEM 150 General Chemistry I (3 credits) & CHEM151 General Chemistry I Laboratory (1 credit)
- ECON 111 Macroeconomics (3 credits) \*\*

**Semester II**

- COMM 100 Public Speaking (3 credits)
- BIOL 165 Introduction to Cell Biology (4 credits)
- CHEM 160 General Chemistry II (3 credits) & CHEM161 General Chemistry II Laboratory (1 credit)
- MATH 190 Calculus I (4 credits)

**Sophomore Year**

- MATH 191 Calculus II (4 credits)
- MATH 245 Statistics for the Sciences (4 credits) \*\*\*
- BIOL 225 Introduction to Genetics (4 credits)
- BIOL 220 General Microbiology (4 credits) \*
- CHEM 250 Organic Chemistry I (3 credits) & CHEM251 Organic Chemistry I Laboratory (1 credit)
- CHEM 260 Organic Chemistry II (3 credits) & CHEM261 Organic Chemistry II Laboratory (1 credit)
- PHYS 150 General Physics I (4 credits) or
- PHYS 153 General Physics I/Calculus Based (4 credits)

**Junior Year**

- BIOL 370 Immunology (3 credits)
- BIOL 330 Biomedical Physiology (4 credits)
- BIOL 305 Human Functional Anatomy (4 credits)
- CHEM 320 Biochemistry I (3 credits) (or BIOL320)

**Recommended Courses**

- BIOL 300 Internship in Life/Health Sciences (1-4 credits)
- CHEM 370 Physical Chemistry I (3 credits)
- CHEM 395 Biochemistry II (3 credits) (or BIOL395)

**NOTES:**

- \* BIOL 209 - Clinical Microbiology may be substituted if scheduling requires.
- \*\* ECON 110 - Microeconomics may be substituted if scheduling requires.
- \*\*\* MATH 220 – Elementary Statistics may be substituted if scheduling requires.

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