

# HEALTH PROFESSIONS PATHWAY

## Pre-Pharmacy

The Pre-Pharmacy curriculum, housed in the Ila Faye Miller School of Nursing and Health Professions at the University of the Incarnate Word, is a rigorous two, three, or four-year (for Bachelor's degree-seeking students) preparatory program designed to ready students for admission to the professional Doctor of Pharmacy program. It includes a liberal arts core of social sciences and the arts, combined with specialty courses in the biological, physical and chemical sciences. While satisfying the general college core requirements, the curriculum also equips the student with the intellectual and scientific base essentials to achieve academic success in a challenging professional program. Incoming freshmen students are encouraged to join the Pre-Pharmacy Association (PPA), the award-winning professional student organization voted Best Student Organization by UIW's Student Government Association (SGA) and Campus Activities Board (CAB).

### 11th Grade

FALL

MATH 1304  
PSYC 1301  
UIW CORE

SPRING

BIOL 1402  
BIOL 1402L  
MATH 2303  
UIW CORE

### 12th Grade

FALL

MATH 1311  
CHEM 1301  
CHEM 1101  
UIW CORE

SPRING

MATH 2312  
CHEM 1302  
CHEM 1102  
COMM 1311

### DOCTOR OF PHARMACY DIRECT ADMIT PROGRAM

The Direct Admit program for Pharmacy is a 2+4 program for advanced students interested in a Doctor of Pharmacy (Pharm.D.) degree. It takes six years to complete.

SCAN NOW

Learn more about the Feik  
School of Pharmacy.



### PROFESSIONAL DEGREE OPTIONS

M.S. in Applied Pharmaceutical Sciences  
Doctor of Pharmacy (Pharm.D.)  
Pharm.D. + M.A.A. Dual Degree



## BRAINPOWER CONNECTION'S COLLEGE CONNECTION PROGRAM

The Brainpower Connection's College Connection Program offers a seamless transition to the University of the Incarnate Word and its Health Professions schools, accelerating their academic pathway to UIW and post-secondary education at a reduced tuition rate. Eligible students attend college classes on the UIW campus. These dual credit courses will help students to succeed in college and provide opportunities to engage in student life activities. Health professions students must have a C or better in all college courses for major, minor, concentration, and/or specialization.

### FOR MORE INFORMATION

Contact Patricia L. Ramirez, director of Brainpower Connection Programs, at (210) 283-6300 or [plramire@uiwtx.edu](mailto:plramire@uiwtx.edu).





## Pre-Pharmacy Course Descriptions



### BIOL 1402 General Biology I

This course studies the cellular and molecular biology of living organisms. Cell structure and function, metabolism, and genetics are emphasized. It serves as a foundation for advanced courses in biology and is for science majors.

### BIOL 1402L General Biology I Lab

Corequisite laboratory section of BIOL 1402.

### CHEM 1301 Chemical Principles I

This course studies fundamental laws and theories of chemistry: the modern concept of the atom, atomic structure and periodic properties of the elements, kinetic-molecular theory, states of matter, solutions, acids, bases, and salts, oxidation-reduction, equilibrium, thermodynamics, electrochemistry, nuclear chemistry, bonding. **Prerequisite: MATH 1304 OR MATH 1311 OR MATH 2312.**

### CHEM 1101 Chemical Principles I Lab

Corequisite laboratory section of CHEM 1301.

### CHEM 1302 Chemical Principles II

This course studies fundamental laws and theories of chemistry: the modern concept of the atom, atomic structure and periodic properties of the elements, kinetic-molecular theory, states of matter, solutions, acids, bases, and salts, oxidation-reduction, equilibrium, thermodynamics, electrochemistry, nuclear chemistry, bonding. Must be taken in sequence with CHEM 1301. **Prerequisite: CHEM 1301 AND CHEM 1101L.**

### CHEM 1102 Chemical Principles II Lab

Corequisite laboratory section of CHEM 1302.

### COMM 1311 Public Speaking

This course introduces students to the preparation, delivery, and evaluation of informative and persuasive speeches.

### MATH 1304 College Algebra

This three-hour course covers algebraic operations, functions, and functional notation; polynomial equations and inequalities; graphing techniques, graphs of polynomial and rational functions; logarithms and exponentials; and problems from the physical and social sciences and business.

### MATH 1311 Pre-Calculus

This is a three-hour course that focuses on the properties of functions and their inverses with the study of trigonometric, logarithmic, and exponential functions. Students will learn concepts essential to the study of calculus, including but not limited to sequences, series, analytic trigonometry, and analytic geometry. **Prerequisite: MATH 1304.**

### MATH 2312 Calculus I

This is a three-hour course that includes functions, limits, derivatives, indeterminate forms, and integrals; exponential and logarithmic functions; trigonometric functions; and applications. **Prerequisite: MATH 1311.**

### MATH 2303 Probability and Statistics

This course covers elementary probability theory, as well as techniques of statistical inference including sampling theory, estimation procedures, and hypothesis testing. **Prerequisite: MATH 1304 or higher.**

### PSYC 1301 Introduction to Psychology

This course studies the basic facts and principles of psychology.