

# HEALTH PROFESSIONS PATHWAY

## Bachelor of Science in Healthcare Sciences Pre-Medicine Track

The Bachelor of Science (B.S.) in Healthcare Sciences program, housed in the Ila Faye Miller School of Nursing and Health Professions at the University of the Incarnate Word, is designed to be a pathway for students wishing to continue into professional graduate programs in athletic training, physical therapy, medical school, occupational therapy and physician assistant areas. The curriculum structure and content give the graduate a strong foundation and credentials to embark on other career paths in advanced healthcare settings or to enter the workforce as entry-level technicians in healthcare settings. The Pre-Medicine track is designed for students with the drive, ambition and academic preparation required to become a physician. The track prepares students for a career in medicine and/or graduate school.

### 11th Grade

FALL

BIOL 2321  
BIOL 2121  
UIW CORE

SPRING

BIOL 2322  
BIOL 2122  
PSYC 1301  
UIW CORE

### 12th Grade

FALL

MATH 1304  
CHEM 1301  
CHEM 1101  
UIW CORE

SPRING

CHEM 1302  
CHEM 1102  
UIW CORE (2)

### DOCTOR OF OSTEOPATHIC MEDICINE DIRECT ADMIT PROGRAM

The Direct Admit program for Osteopathic Medicine is a 4+4 program allowing advanced students to attain their undergraduate and Doctor of Osteopathic Medicine degrees in eight years.

SCAN NOW



Learn more about the University of the Incarnate Word School of Osteopathic Medicine.

### PROFESSIONAL DEGREE OPTIONS

Master of Public Health  
Master of Biomedical Sciences  
Doctor of Osteopathic Medicine



### 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-Medicine Course Descriptions



### BIOL 2321 Anatomy and Physiology I

This course is the first of a two-course sequence. It examines the gross structure and functions of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous, and special senses. It is designed for students in biology, the health professions, and physical education.

### BIOL 2121 Anatomy and Physiology I Lab

Corequisite laboratory section of BIOL 2321.

### BIOL 2322 Anatomy and Physiology II

This Anatomy and Physiology II is a course covering the second half of a two-semester sequence on the structure and function of the human organism. The purpose of this course is to familiarize students with the endocrine system, circulation, immunity, respiration, digestion, urinary system, homeostasis of acid, base, and fluids, reproduction, and development. **Prerequisite: BIOL 2321.**

### BIOL 2122 Anatomy and Physiology II Lab

Corequisite laboratory section of BIOL 2322.

### 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.

### 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.

### PSYC 1301 Introduction to Psychology

This course studies the basic facts and principles of psychology.