



Bachelor of Science in Biology: Pre-Medicine

School of Math, Science and Engineering

PROGRAM OVERVIEW

The Bachelor of Science (B.S.) in Biology program offers a Pre-Medicine concentration for students who plan to pursue medical school after completing their undergraduate degree. This concentration is specifically designed to meet the prerequisite requirements for medical school while providing a strong foundation in the biological sciences and related disciplines essential for success in healthcare professions.

The Pre-Medicine concentration integrates core biological concepts with specialized coursework in basic biology, human physiology, microbiology and biochemistry. Students also complete foundational studies in chemistry, physics, statistics and psychology, creating a comprehensive academic framework that aligns with the competencies tested on the Medical College Admission Test (MCAT) and expected by medical schools. Advanced coursework emphasizes critical thinking, scientific inquiry, problem-solving and evidence-based decision-making in the context of human health and disease.

Through rigorous classroom instruction, laboratory experiences and opportunities for research, students develop the knowledge and skills necessary for success in medical school and other health profession programs. In addition, academic advising and career counseling are available to guide students through the medical school application process and preparation for professional careers in healthcare.

CONTACT

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LEARN MORE → [UIW.EDU](https://uiw.edu)

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Your Journey.
Our Mission.

Degree Plan

B.S. in Biology: Pre-Medicine

FRESHMAN YEAR

Fall

ENGL 1311: Composition I (3)
RELS Core Course (3)
FYES 1211: First Year Experience Seminar (2)
BIOL 1402: General Biology I for Majors & Lab (4)
CHEM 1301: Chemistry Principles I (3)
CHEM 1101: Chemistry Principles I Lab (1)

Total Hours: 16

Spring

ENGL 1312: Composition II (3)
PHIL 1381: Intro to Philosophy (3)
PEHP Activity Course (1)
BIOL 1403: General Biology II for Majors & Lab (4)
CHEM 1302: Chemical Principles II (3)
CHEM 1102: Chemical Principles II Lab (1)

Total Hours: 15

SOPHOMORE YEAR

Fall

ENGL 2310: World Literature (3)
MATH 2303: Intro to Probability & Statistics (3)
CHEM 2311: Organic Chemistry I (3)
CHEM 2111: Organic Chemistry I Lab (1)
BIOL 2321: Anatomy & Physiology I (3)
BIOL 2121: Anatomy & Physiology I Lab (1)

Total Hours: 14

Spring

HIST Core Course (3)
PSYC 1301: Intro to Psychology (3)
CHEM 2312: Organic Chemistry II (3)
CHEM 2112: Organic Chemistry II Lab (1)
BIOL 2322: Anatomy & Physiology II (3)
BIOL 2122: Anatomy & Physiology II Lab (1)
BIOL 3311: Cell Biology (3)

Total Hours: 17

JUNIOR YEAR

Fall

Modern Language I (3)
BIOL 3442: Ecology (4)
PHYS 1301: General Physics I or 2305 Physics I (3)
PHYS 1101: General Physics I Lab or 2105 Physics I Lab (1)
BIOL 4351: Biochemistry I (3)

Total Hours: 14

Spring

Modern Language II (3)
BIOL 3361: Genetics (3)
BIOL 3202: Research Methods in Cell & Molecular Genetics (2)
PHYS 1302: General Physics II or 2306 Physics II (3)
PHYS 1102: General Physics II Lab or 2106 Physics II Lab (1)
Pre-Medicine Biology Elective:
BIOL 4320, 4372, 4330, 4352, or 4386 (3)

Total Hours: 15

SENIOR YEAR

Fall

Ethics Course: PHIL 4350, 4350H, 3332, or 3333 (3)
Advanced Psychology Course: PSYC 3351 or 3331 (3)
BIOL 4310: Advanced Human Physiology (3)
General Elective: 3000-4000, if needed (3)
General Elective: 1000-4000, if needed (3)

Total Hours: 15

Spring

Fine Arts Elective (3)
BIOL 3471: General Microbiology & Lab (4)
BIOL Elective: 3000-4000 (3)
General Elective: 1000-4000 if needed (4)

Total Hours: 14

*120 hours needed to complete the B.S. in Biology Pre-Medicine Concentration

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