

University of the Incarnate Word®

Bachelor of Science in Biology

School of Mathematics, Science and Engineering

PROGRAM OVERVIEW

Both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.) in Biology at the School of Mathematics, Science and Engineering are designed to ready students for a variety of professions in education, biomedical research, careers in business, nonprofit agencies and government, and for graduate programs in science, health professions or medical school.

The B.S. in Biology is the traditional Biology degree for students who intend to apply to professional, health professions and graduate schools. Courses in immunology, virology, medical microbiology and bioethics help ensure they are well prepared.

The B.S. is a 120-hour program that incorporates a broad range of disciplines including evolution, cellular and molecular biology, genetics, topics in animal and human physiology, microbiology and ecology.

Students can expect a rigorous and dynamic program with extensive lab and hands-on learning. Courses like anatomy and physiology, ecology, cell biology and molecular genetics cover a broad scope of study and ensure students a comprehensive education. UIW Honors students also have an opportunity for advanced research.

The Biology department provides support course work for a variety of health professional majors and offers courses that fulfill the core curriculum requirement of a laboratory science for students in all majors.

ADMISSION REQUIREMENTS

The requirements for admission to the B.S. in Biology program are the same as the requirements for admission to the University of the Incarnate Word.

CONTACT

UIW Admissions
(210) 829-6005
admission@uiwtx.edu

This publication is available in alternate format by request. To request an alternate format, please contact the UIW Office of Admissions at (210) 829-6005. 5/2021 500

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Biology (B.S.)

B.S. in **Biology**

FRESHMAN YEAR

Fall

ENGL 1311: Composition I (3 hours)
 RELS Core Course 1305, 1315, 1325, 1335 (3 hours)
 BIOL 1402 Biology for Majors I and Lab (4 hours)
 CHEM 1301/1101 Chemistry Principles I (3 hours)
 CHEM 1101 Chemistry Principles I Lab (1 hours)

Total Hours: 14

Spring

ENGL 1312: Composition II (3 hours)
 BIOL 1403: Biology for Majors II and lab (4 hours)
 CHEM 1302 Chemistry Principles II (3 hours)
 CHEM 1102 Chemistry Principles II lab (1 hour)
 PHIL 1381: Intro to Philosophy (3 hours)
 DWHP 1381 or 3201 (2 hours)

Total Hours: 16

SOPHOMORE YEAR

Fall

ENGL 2310: World Literature (3 hours)
 MATH 2303 or 2312 (3 hours)
 CHEM 2311/2111 Organic Chemistry I and Lab (4 hours)
 BIOL 2321: Anatomy and Physiology I (3 hours)
 BIOL 2121: Anatomy and Physiology I Lab (1 hour)
 PHED Activity Course (1 hour)

Total Hours: 15

Spring

Modern Language I (3 hours)
 Social Science (3 hours)
 BIOL 2322: Anatomy and Physiology II (3 hours)
 BIOL 2122: Anatomy and Physiology II Lab (1 hour)
 CHEM 2311/2111: Organic Chemistry and Lab (4 hours)
 History Core (3 hours)

Total Hours: 17

JUNIOR YEAR

Fall

Modern Language II (3 hours)
 PHYS 1301/1101 or 2305/2105 Physics I (4 hours)
 BIOL 3442: Ecology and Lab (4 hours)
 BIOL 3361: Genetics (3 hours)

Total Hours: 14

Spring

PHYS 1302/1102 or 2306/2106 Physics II (4 hours)
 BIOL Elective (3000-4000 if needed) (4 hours)
 BIOL Elective (3000-4000 if needed) (3 hours)
 BIOL 3311: Cell Biology (3 hours)
 BIOL 3202: Research Methods-Cell/Molecular Genetics (3 hours)

Total Hours: 16

SENIOR YEAR

Fall

UIW Upper Level Religion or Philosophy (3 hours)
 BIOL Elective (3000-4000 if needed) (4 hours)
 BIOL Elective (3000-4000 if needed) (4 hours)
 General Elective (3000-4000 if needed) (3 hours)

Total Hours: 14

Spring

Fine Arts Elective (3 hours)
 General Elective (3 hours)
 BIOL Elective (3000-4000 if needed) (4 hours)
 BIOL Elective (3000-4000 if needed) (4 hours)

Total Hours: 14

120 hours needed to complete the BS in Biology.