



BIOLOGY

Bachelor of Science

School of Mathematics, Science & Engineering

Program Overview

The Biology degree incorporates a broad range of disciplines including evolution, cellular and molecular biology, genetics, topics in animal and human physiology, microbiology, and ecology. Biology faculty and students conduct research in biomedical sciences, biosystematics, ecology, and science teaching and learning. There are two pathways to a biology degree. The BS (Bachelor of Science) graduates are prepared to pursue advanced education in the medical professions and research in the biological sciences. The BA (Bachelor of Arts) allows students the flexibility to pursue a minor in teaching or environmental science and prepares students to enter the teaching profession or to work in a variety of careers in business, nonprofit agencies, and government.

Professional School Opportunities

Graduate options include medicine, dentistry, veterinary medicine, pharmacy, optometry, physicians assistant, and physical therapy.

Career Opportunities

The Biology major serves a wide variety of career opportunities. In addition to professional school opportunities or graduate school in biological sciences, the biology major provides a strong foundation in the basic life sciences that prepares students for research and technical positions in universities, government, and industry. A biology degree also prepares graduates for positions in zoos, museums, botanical gardens and wildlife parks. With a minor in teaching, graduates can be certified to teach biology in high school or science in middle school.

Special Programs

The Biology Department has an Accelerated BS/MA Biology Program. This is a five-year program in which students can earn both a Bachelor of Science and Master of Arts degree in Biology.

Contact

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Bachelor of Science in Biology
SCHOOL OF MATH, SCIENCE, & ENGINEERING
2015-2017

Freshman Year: Fall		Hrs.
ENGL 1311 Composition I	3	
RELS Core Course 1305, 1315, 1325, 1335	3	
BIOL1402 Biology for Majors I & Laboratory*	4	
CHEM 1301 Chemistry Principles I	3	
DWHP 1200 or 32001	2	
Total hours	15	
Sophomore Year: Fall		
ENGL 2310 World Literature	3	
MATH 2303 or 2312	3	
CHEM 2311/2111 Organic Chem I & Lab	4	
Anatomy & Physiology BIOL 2321	3	
BIOL Lab 2121 A & P I	1	
PHED Activity Course	1	
Total hours	15	
Junior Year: Fall		
Modern Language II	3	
PHYS 1301/1101 or 2305/2105 Physics I	4	
BIOL 3442 Ecology & Lab	4	
BIOL 3361 Genetics	3	
Total hours	14	
Senior Year: Fall		
BIOL Elective (3000-4000 if needed)	4	
UIW Upper Level Religion or Philosophy	3	
Any Upper Level Elective if needed	3	
BIOL Elective (3000-4000 if needed)	4	
Total hours	14	

Freshman Year: Spring		Hrs.
ENGL 1312 Composition II	3	
BIOL 1403 Biology for Majors II & Laboratory*	4	
CHEM 1302 Chemistry Principles II	3	
General Chemistry Lab 1203L	2	
PHIL 1381 Intro to Philosophy	3	
Total hours	15	
Sophomore Year: Spring		
Modern Language I	3	
Social Science	3	
Anatomy & Physiology BIOL 2322	3	
BIOL Lab 2312 A & P II	1	
CHEM 2312/2111 Organic Chem II & Lab	4	
History	3	
Total hours	17	
Junior Year: Spring		
PHYS 1302/1102 or 2306/2106 Physics II	4	
BIOL Elective (3000-4000 if needed)	4	
BIOL Elective (3000-4000 if needed)	3	
BIOL 3311 Cell Biology	3	
BIOL 3202 Research Methods-Cell/Molecular Gen		
Total hours	16	
Senior Year: Spring		
Fine Arts elective	3	
General Elective	3	
BIOL Elective (3000-4000 if needed)	4	
BIOL Elective (3000-4000 if needed)	4	
Total hours	14	

Core Curriculum - Total Hours 49
Major - Total Hours 71
Degree - Total Hours 120

Biology electives and general electives, as needed to reach minimum 120 hours to graduate & 36 advanced hours

*BIOL 1402 and 1403 are not sequential, and can be taken in any order