



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.

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

Freshman Year: Fall		Hrs.	Freshman Year: Spring		Hrs.
ENGL 1311 Composition I		3	ENGL 1312 Composition II		3
RELS Core Course 1305, 1315, 1325, 1335		3	BIOL 1403 Biology for Majors II & Laboratory*		4
BIOL1402 Biology for Majors I & Laboratory*		4	CHEM 1302 Chemistry Principles II		3
CHEM 1301 Chemistry Principles I		3	General Chemistry Lab 1203L		2
DWHP 1200 or 32001		2	PHIL 1381 Intro to Philosophy		3
Total hours		15	Total hours		15
Sophomore Year: Fall			Sophomore Year: Spring		
ENGL 2310 World Literature		3	Modern Language I		3
MATH 2303 or 2312		3	Social Science		3
CHEM 2311/2111 Organic Chem I & Lab		4	Anatomy & Physiology BIOL 2322		3
Anatomy & Physiology BIOL 2321		3	BIOL Lab 2312 A & P II		1
BIOL Lab 2121 A & P I		1	CHEM 2312/2111 Organic Chem II & Lab		4
PHED Activity Course		1	History		3
Total hours		15	Total hours		17
Junior Year: Fall			Junior Year: Spring		
Modern Language II		3	PHYS 1302/1102 or 2306/2106 Physics II		4
PHYS 1301/1101 or 2305/2105 Physics I		4	BIOL Elective (3000-4000 if needed)		4
BIOL 3442 Ecology & Lab		4	BIOL Elective (3000-4000 if needed)		3
BIOL 3361 Genetics		3	BIOL 3311 Cell Biology		3
			BIOL 3202 Research Methods-Cell/Molecular Gen		
Total hours		14	Total hours		16
Senior Year: Fall			Senior Year: Spring		
BIOL Elective (3000-4000 if needed)		4	Fine Arts elective		3
UIW Upper Level Religion or Philosophy		3	General Elective		3
Any Upper Level Elective if needed		3	BIOL Elective (3000-4000 if needed)		4
BIOL Elective (3000-4000 if needed)		4	BIOL Elective (3000-4000 if needed)		4
Total hours		14	Total hours		14
Core Curriculum - Total Hours		49	Major - Total Hours		71
Major - Total Hours		71	Degree - Total Hours		120
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