

Biology Major (BA)

Bachelor of Arts, BA

The biology major requires 32 credit hours of biology coursework with a BA degree. At least 16 of these 32 credit hours must be at the 300-level or higher. The 32 hours must include coursework as listed below. The remainder of the 32 hours is elective coursework.

CHM 415 applies to the BA biology major. The following courses do not apply to the BA biology major: BIO 105, 110, 112, 117, 120, 199H and 481. A maximum of 4 credit hours of BIO 490 may apply to the biology major. BIO 303 (Systematic Botany) cannot satisfy both the Plant Diversity and the Field Biology requirements for an individual BA student.

Introduction to Biological Sciences

Item #	Title	Credits
BIO 190	INTRODUCTION TO BIOLOGICAL SCIENCE I	4
BIO 191	INTRODUCTION TO BIOLOGICAL SCIENCE II	4
Sub-Total Credits		8

Diversity

Choose one course from two of the following three areas:

Item #	Title	Credits
	Animal Diversity	4-5
	Plant Diversity	4
	Field Biology	4
Sub-Total Credits		8-9

Cellular Biology

- Choose one of the following:

Item #	Title	Credits
BIO 310	CELL BIOLOGY	4
BIO 312	MICROBIOLOGY	4
Sub-Total Credits		4

Genetics

Choose one of the following:

Item #	Title	Credits
BIO 301	GENETICS	4
BIO 408	MOLECULAR BIOLOGY OF THE CELL	4
Sub-Total Credits		4

Evolution

Item #	Title	Credits
BIO 302	EVOLUTIONARY BIOLOGY	3
Sub-Total Credits		3

Seminars

Item #	Title	Credits
BIO 491	SENIOR SEMINAR	3
Sub-Total Credits		3

Electives

Sub-Total Credits		1-2
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Total Biology Courses

Sub-Total Credits		32
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Cognate Coursework for the BA Biology Major

- Students earning a biology major with a BA degree must complete the following cognate courses in Chemistry and other Mathematics/Statistics and Sciences. The grades in these courses are not included in the major GPA.

Chemistry. Students must complete one science major level chemistry course.

Item #	Title	Credits
CHM 190	GENERAL CHEMISTRY	4
Sub-Total Credits		4

Math and Statistics

Students earning a biology major with a BA degree must be mathematically prepared for the first calculus course (MTH 120). They are then required to take either the first calculus course or statistics. Students who enter the college placed at the level of MTH 120 or higher have satisfied the first part of this requirement with (0 credit hours). Students who enter the college placed at a lower level must pass MTH 110 (3 credit hours) to fulfill this requirement.

Item #	Title	Credits
MTH 110	ELEMENTARY FUNCTIONS	3
	Calculus or Statistics	3-4
Sub-Total Credits		6-7

Non-Biology or Mathematical Science Elective

Students earning a biology major with a BA degree must take a non-biology science or mathematics class beyond the requirements listed above. Options for this class include chemistry, physics, astronomy, geology, environmental science, mathematics, and computer science.

Sub-Total Credits	3-4
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Total Cognate Hours

Sub-Total Credits	13-15
Total Credits	45-47