

# Biology Major (BS)

## Bachelor of Science, BS

The biology major with a BS degree requires 37 credit hours of biology coursework. At least 18 of these 37 credit hours must be at the 300-level or higher. The 37 hours must include coursework as listed below. The remainder of the 37 hours is elective coursework.

The following biology courses do not apply to the BS biology major: BIO 105, 110, 112, 117, 120, 199H, and 481. A maximum of 4 credit hours of BIO 490 may apply to the BS biology major. BIO 303 (Systematic Botany) will satisfy both the field biology and plant biology requirements for an individual BS student. CHM 415 applies to the BS biology major as an elective.

## Introduction to Biological Sciences

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

## Animal Diversity

Choose one of the following:

Item #	Title	Credits
BIO 202	GENERAL ZOOLOGY	4
BIO 305	HUMAN AND COMPARATIVE ANATOMY	5
BIO 308	INVERTEBRATE ZOOLOGY	4
BIO 309	PARASITOLOGY	4
<b>Sub-Total Credits</b>		<b>4-5</b>

## Plant Diversity

Choose one of the following:

Item #	Title	Credits
BIO 203	GENERAL BOTANY	4
BIO 303	SYSTEMATIC BOTANY	4
<b>Sub-Total Credits</b>		<b>4</b>

## Cellular Biology

Choose one of the following:

Item #	Title	Credits
BIO 310	CELL BIOLOGY	4
BIO 312	MICROBIOLOGY	4
<b>Sub-Total Credits</b>		<b>4</b>

## Field Biology

Choose one of the following:

Item #	Title	Credits
BIO 303	SYSTEMATIC BOTANY	4
BIO 411	ECOLOGY	4
<b>Sub-Total Credits</b>		<b>4</b>

## Genetics

Choose one of the following:

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

## Evolution

Item #	Title	Credits
BIO 302	EVOLUTIONARY BIOLOGY	3
<b>Sub-Total Credits</b>		<b>3</b>

## Seminars

Item #	Title	Credits
BIO 491	SENIOR SEMINAR	3
<b>Sub-Total Credits</b>		<b>3</b>

## Electives

<b>Sub-Total Credits</b>		<b>2-3</b>
--------------------------	--	------------

## Total Hours in Biology

<b>Sub-Total Credits</b>		<b>37</b>
--------------------------	--	-----------

## Cognate Coursework for BS in Biology Major:

Students earning a biology major with a BS degree must complete the following cognate courses in Chemistry, Mathematics/Statistics, and Physics. The grades in these courses are not included in the major GPA.

### Chemistry

Students must complete these three courses in chemistry.

Item #	Title	Credits
CHM 190	GENERAL CHEMISTRY	4
CHM 203	ORGANIC CHEMISTRY I	4
CHM 204	ORGANIC CHEMISTRY II	4
<b>Sub-Total Credits</b>		<b>12</b>

### Physics

Students must complete one of the following sequences in Physics.

Item #	Title	Credits
	PHY 241 and PHY 242 Elements of Physics I and II	8
	PHY 251 and PHY 252 Essentials of Physics I and II	8
<b>Sub-Total Credits</b>		<b>8</b>

### Mathematics and Statistics

Students must complete Calculus I and either statistics or a math class higher than Calculus I.

Item #	Title	Credits
MTH 120	CALCULUS AND ANALYTIC GEOMETRY I	4
	Mathematics and Statistics Option	3-4
<b>Sub-Total Credits</b>		<b>7-8</b>

### Total Cognate Hours

<b>Sub-Total Credits</b>		<b>27-28</b>
Total Credits		64-65