

## Major: Biology (B.A.)

The B.A. and the B.S. in biology can both provide students with the experience and knowledge necessary to have a successful career. A B.A. in biology requires 20 hours of approved hours in the Natural Sciences Division. The B.A. has a more flexible supporting area and is a particularly appealing option for students who would like to combine their biology degree with another area of emphasis such as math or physics.

### Biology Major (B.A., 30 hours plus a 20-hour supporting program)

<b>Biology Core</b>	<b>12 hours</b>
<a href="#">BIO 1400FYW Introduction to Biological Inquiry</a>	4 hours
<a href="#">BIO 2200 Genetics and Cell Biology</a>	4 hours
<a href="#">BIO 2300 Ecology and Evolution</a>	4 hours
<b>Biology Electives</b>	<b>16 hours</b>
Must have two lab courses, with at least one from Area <a href="#">A</a> and one from Area <a href="#">B</a> . Remaining hours from any areas ( <a href="#">A</a> , <a href="#">B</a> , <a href="#">C</a> , <a href="#">D</a> , <a href="#">E</a> ).	
<b>Capstone</b>	<b>2 hours</b>
<a href="#">BIO 4980A Senior Thesis</a> and <a href="#">BIO 4980B Senior Thesis</a> or <a href="#">BIO 4990A Senior Research</a> and <a href="#">BIO 4990B Senior Research</a>	2 hours

### Biology Electives

<b>Area A. Cellular, Developmental and Molecular Biology</b>	
<a href="#">BIO 3160 Medical Botany</a>	3 hours
<a href="#">BIO 3160 Medical Botany</a> and <a href="#">BIO 3170 Medical Botany Lab</a> (lab course)	4 hours
<a href="#">BIO 3440 Developmental Biology</a> (lab course)	4 hours
<a href="#">BIO 3690 Microbiology</a> (lab course)	4 hours
<a href="#">BIO 3800 Molecular Genetics</a>	3 hours
<a href="#">BIO 3800 Molecular Genetics</a> and <a href="#">BIO 3850 Molecular Genetics Lab</a> (lab course)	4 hours
<a href="#">BIO 4190 Histology</a> (lab course)	4 hours
<a href="#">BIO 4750 Immunology</a>	3 hours
<a href="#">BIO 4750 Immunology</a> and <a href="#">BIO 4760 Laboratory in Immunology</a> (lab course)	4 hours

<b>Area B. Population and Ecological Biology</b>	
<a href="#">BIO 3180 Plant Taxonomy</a> (lab course)	4 hours
<a href="#">BIO 3220 Parasitology</a> (lab course)	4 hours
<a href="#">BIO 3500 Conservation Biology</a> (lab course)	4 hours
<a href="#">BIO 3530 Principles of Marine Biology and Oceanography</a>	2 hours
<a href="#">BIO 3530 Principles of Marine Biology and Oceanography</a> and <a href="#">BIO 3540 Applied Marine Biology</a> (lab course)	5 hours
<a href="#">BIO 3640 Animal Behavior</a>	3 hours
<a href="#">BIO 3640 Animal Behavior</a> and <a href="#">BIO 3650 Laboratory in Animal Behavior</a> (lab course)	4 hours
<a href="#">BIO 3720 Physiological Ecology</a> (lab course)	4 hours
<a href="#">BIO 4210 Ecology</a> (lab course)	4 hours
<a href="#">BIO 4480 Vertebrate Zoology</a> (lab course)	4 hours
<a href="#">BIO 4610 Evolution</a>	3 hours
<b>Area C. Applied Biology</b>	
<a href="#">BIO 3000 An Introduction to Biomedical Ethics</a>	2 hours
<a href="#">BIO 3200 Advanced Human Anatomy and Physiology I</a> (lab course)	4 hours
<a href="#">BIO 3210 Advanced Human Anatomy and Physiology II</a> (lab course)	4 hours
<a href="#">BIO 3970 Biology Practicum</a>	1-3 hours
<a href="#">BIO 3950/BIO 4950 Independent Study</a>	1-2 hours
<a href="#">BIO 4700 Pathophysiology</a>	3 hours
<b>Area D. Global Experience in Biology</b>	
<a href="#">BIO 3510 Tropical Biology of Costa Rica</a>	3 hours
<a href="#">BIO 3520 Tropical Biology of Belize</a>	3 hours
<a href="#">BIO 3530 Principles of Marine Biology and Oceanography</a>	2 hours
<a href="#">BIO 3540 Applied Marine Biology</a>	3 hours
<b>Area E. Additional Courses</b>	
<a href="#">BIO 3900/BIO 4900 Selected Topics</a>	1-4 hours
<a href="#">BIO 3910 Directed Readings</a>	1-2 hours

[BIO 1080 Microbiology](#), [BIO 1090 Introduction to Human Anatomy and Physiology I](#), and [BIO 1100 Introduction to Human Anatomy and Physiology II](#)

may not fulfill biology major requirements.

Required Supporting Program	20 hours
<p>An approved supporting program of 20 hours is also required, normally comprised of courses from the Natural Sciences division. Required Supporting Program Courses:</p> <ul style="list-style-type: none"><li>• <a href="#">CHEM 1110 Chemical Principles I</a> and <a href="#">CHEM 1110L Chemical Principles I Laboratory</a></li><li>• <a href="#">CHEM 2100 Organic Chemistry I</a> and <a href="#">CHEM 2100L Organic Chemistry I Laboratory</a></li></ul>	

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