

Bachelor of Arts in Natural Sciences Degree Program
Catalog Year 2012-2013

Biology Option

Core Requirements:.....36 units	Taken	In Progress	Need
<u>Biology.....12-13 units</u>			
Biol 1A (Biosci 1A): Introductory Biology I 4 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 1B (Biosci 1B): Introductory Biology II 5 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 101 (Biosci 130): General Ecology 3 units <i>(Prerequisites: BIOL 1A and 1B; PSYCH 42 or MATH 101, or EES 178)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Chemistry.....10 units</u>			
Chem 1A: General Chemistry I 5 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chem 1B: General Chemistry II 5 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Geology.....8 units</u>			
EES 1 (Geol 1): Physical Geology and Field Trip 4 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EES 168 (Geol 168): Geology of California 3 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Natural Science.....3 units</u>			
N Sci 106: The Nature of Science 3 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Physical Science.....4 units</u>			
P Sci 21: Astronomy 4 units <i>Prerequisite Area B4</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Biology Option.....42-44 units</u>			
Chem 8 or Chem 128A: Organic Chemistry 3 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Phys 2A: General Physics I 4 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Phys 2B: General Physics II 4 units <i>Prerequisite Area B4</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Math 75 Mathematical Analysis II 4 units <i>(Calculus Readiness Test required)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Math 101 Statistical Methods 4 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-or-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Psych 42 Intro Stats 4 units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 102 (Biosci 140A): Genetics 3 units <i>Prerequisites: BIOL 1A, 1B and CHEM 8 or 128A</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 103 (Biosci 140B): Genetics/Cell Biology 4 units <i>Prerequisite Chem 150 or 155</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 104 (BioSci 140L): Genetics/Cell Biology LAB 1 unit <i>Prerequisite: BIOL 102 and 103. *BIOL 103 may be taken concurrently</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 105 (Biosci 180): Evolution 3 units <i>Prerequisites: senior standing or permission of instructor; BIOL 101, 102, and 103</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biol 120 (Micro 140): Microbiology 4 units <i>Prerequisites: BIOL 1A, 1B; CHEM 8 or 128A; or BIOL 11 and CHEM 150</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Select one course: Category A.(3-4 units)

Biol 124 (Bot 131):	Vascular Plants	4 units	Course_____
<i>Prerequisites: BIOL 1A and 1B</i>			
Biol 122 (Bot 132):	Non-Vascular Plants	3 units	
<i>Prerequisites: BIOL 1A and 1B</i>			
Biol 125 (Bot 144):	Plant Taxonomy	4 units	
<i>Prerequisites: BIOL 1A and 1B</i>			
Biol 171 (Ecol 151):	Terrestrial Ecology	4 units	
<i>Prerequisite: BIOL 101</i>			
Biol 172(Ecol 152):	Aquatic Ecology	4 units	
<i>Prerequisite: BIOL 101</i>			
Biol 132(Zool 120):	General Entomology	3 units	
<i>Prerequisites: BIOL 1A and 1B</i>			
Biol 130 (Zool 141):	Invertebrate Zoology	3 units	
<i>Prerequisites: BIOL 1A and 1B</i>			
Biol 131 (Zool 148):	Parasitology	4 units	
<i>Prerequisites: BIOL 1A and 1B and CHEM 1A or 3A</i>			
Biol 133 (Zool 150):	Nat. Hist. of Vertebrates	4 units	
<i>Prerequisite: BIOL 101</i>			
Biol 135 (Zool 174):	Bio: Birds & Mammals	4 units	
<i>Prerequisite: BIOL 101</i>			
Biol 136 (Zool 177):	Mammology	3 units	
<i>Prerequisite: BIOL 101</i>			

Select one course: Category B (3-4 units)

Biol 161(Bot 130):	Plant Physiology	4 units	Course_____
<i>Prerequisites: BIOL 1A-1B or BIOL 11; CHEM 1A or 3A; CHEM 3B or 8 or 12&A</i>			
Biol 160 (Micro 161):	Microbial Physiology	4 units	
<i>Prerequisite: BIOL 120</i>			
Biol 162 (Phy An 151):	Comparative Animal Physiology	4 units	
<i>Prerequisite: BIOL 102 and 103</i>			
Biol 163 (PhyAn 163):	Integrative Human Physiology	3 units	
<i>Prerequisites: BIOL 103 and either BIOL 65</i>			

General Education requirements.....51 units

Electives and remaining degree requirements.....1-3 units

Total 120 units*

See advising notes in catalogue