

**CALIFORNIA STATE UNIVERSITY, STANISLAUS  
DEPARTMENT OF BIOLOGICAL SCIENCES**

**ECOLOGY AND FIELD BIOLOGY CONCENTRATION (17-18 units)**

Students wishing to have a Ecology & Field Biology concentration may do so by completing all the requirements for a major in biological sciences, to include specific concentration requirements listed below. A minimum of 16 upper-division units must be completed within the concentration. Additional units within the concentration will be selected with the aid of the adviser.

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| <p>a. Complete the following required courses:<br/>         BIOL 4680 Ecology, 4 units<br/>         BIOL 4830 Evolution and Population Genetics, 2 units</p>  | <p>b. Complete one of the following courses:<br/>         BIOL 4000 Biogeography, 3 units<br/>         BIOL 4300 Conservation Biology, 3 units<br/>         BIOL 4500 Quantitative Ecology, 4 units<br/>         BIOL 4700 Ecology and Exotic Species, 3 units</p>  |
| <p>c. Complete one of the following courses:<br/>         BIOL 4630 Marine Biology, 4 units<br/>         BIOL 4650 Aquatic Biology, 4 units<br/>         BIOL 4720 Topics in Rocky Intertidal Biology, 4 units<br/>         BIOL 4740 Deep Sea Biology, 4 units<br/>         BOTY 4600 Plant Ecology, 4 units</p> | <p>d. Complete one of the following courses:<br/>         BOTY 3700 Flowering Plants, 4 units<br/>         ENTO 3000 Principles of Entomology, 4 units<br/>         ZOOL 3610 General Vertebrate Zoology, 4 units<br/>         ZOOL 4420 Invertebrate Zoology I, 4 units<br/>         ZOOL 4430, Invertebrate Zoology II, 4 units<br/>         ZOOL 4620 Herpetology, 4 units<br/>         ZOOL 4630 Ornithology, 4 units<br/>         ZOOL 4640 Mammalogy, 4 units<br/>         Selected MSCI courses with consent of adviser.</p> |

**A SAMPLE PROGRAM FOR THE B.S. DEGREE IN THE BIOLOGICAL SCIENCES**

FALL SEMESTER	WINTER TERM	SPRING SEMESTER
<b>Freshman Year</b>		
	Electives.....4	
BIOL 1050.....4		BIOL 1150.....4
CHEM 1100.....5		CHEM 1110.....5
MATH or G.E.		MATH or G.E.
Electives.....4-5		Electives.....4-5
Total Units 13-14		Total Units 13-14
<b>Sophomore Year</b>		
	Electives....4	
BIOL 3310.....3		BIOL 3350.....3
PHYS 2100 or		PHYS 2110 or
CHEM 3010, 3012...4-5		CHEM, PHYS or
G.E. Electives.....6		Math Electives.....4-5
		G.E. Electives.....6
Total Units 13-14		Total Units 13-14
<b>Junior Year</b>		
	Electives....4	
Animal or Plant		Animal or Plant
Science.....4		Science.....4
Biol. Sci. Elective....4-5		Biol. Sci. Electives.....6
CHEM 3010, 3012 or		PHYS 2110 or CHEM
PHYS 2100.....4-5		Electives.....4-5
Total Units 12-14		Total Units 14-15
<b>Senior Year</b>		
	Electives....4	
Ecol. or Physiol.....4		Ecol. or Physiol.....4
		Electives.....9
Biol. Sci. Elective.....4		
G.E. Electives.....3		
Elective.....3		
Total Units 14		Total Units 13

NOTE: Refer to the current university catalog for General Education (G.E.) and Math requirements. Many professional schools require a full year of calculus.