

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
BACHELOR OF SCIENCE IN BIOLOGY, MARINE BIOLOGY (OPTION V)

Lower Division Core

COURSE	TITLE	UNITS	PREREQUISITES & CO-REQUISITES
Biol 106/L	Biological Principles I and Lab	3+1	Corequisite: Biol 106 and 106L must be taken concurrently
Biol 107/L	Biological Principles II and Lab	3+1	Corequisite: Biol 107 and 107L must be taken concurrently, Chem 102/L recommended
Chem 101/L	General Chemistry I and Lab	4+1	Prerequisite: Satisfactory score on the CPT or a grade of "C" or higher in Chem 100 taken at CSUN only Corequisite: Chem 101, 101L, and 101 Discussion must be taken concurrently
Chem 102/L	General Chemistry II and Lab	4+1	Prerequisite: Chem 101/L with a grade of "C-" or better in Chem 101 Corequisite: Chem 102, 102L, and 102 Discussion must be taken concurrently
Phys 100A/AL	General Physics I	3+1	Prerequisite: Math 103, 104, 105 or Math 106 or a score on the MPT sufficient for entry into Math 255A
Phys 100B/BL	General Physics II	3+1	Prerequisite: Phys 100A
Math 255A OR Math 150A	Calculus for the Life Sciences I Calculus I	3 5	Prerequisite: B- in Math 105 or 23 on ALG and 6 on TR of MPT (Full Prep) OR C- in Math 105 or 20 on ALG and 4 on TR of MPT (Conditional Prep) Corequisite: Math 255AL(for Math 255A) OR Math 150AL (for Math 150A) (if Conditional Prep)

Upper Division Core

COURSE	TITLE	UNITS	PREREQUISITES & CO-REQUISITES
Biol 322	Evolutionary Biology	3	Prerequisite: Biol 106/L and Biol 107/L passed with grades of "C" or better
Biol 360	Genetics	3	Prerequisite: Biol 106/L and Biol 107/L passed with grades of "C" or better; Chem 101/L or Chem 103/L; Math 105, Math 106, or Math 102+104
Biol 380	Cell Biology	3	Prerequisite: Biol 106/L and Biol 107/L passed with grades of "C" or better; Chem 102/L or Chem 104
Chem 235/L OR Chem 333/L AND Chem 334/L	Introductory Organic Chemistry and Lab Principles of Organic Chemistry I and Lab Principles of Organic Chemistry II and Lab	3+1 4+1 3+1	Prerequisite: Chem 102/L Corequisite: Chem102L must be taken concurrently Prerequisite: Chem 102/L with a grade of "C-" or better in Chem 102 Corequisite: Chem 333, 333L, and 333 Discussion must be taken concurrently Prerequisite: Chem 333/L with a grade of "C-" or better in Chem 333 Corequisite: Chem 334 and 334L must be taken concurrently 334R is optional
Biol 330/L OR Biol 502/L	Design & Analysis of Experiments and Lab Biometry and Lab	2+1 3+1	Prerequisite: Biol 106/L & 107/L w/ "C" or better; Math 105, 140, or 255A. Lab must be taken concurrently
Biol421/L/492B	Marine Biology and Lab and Field Studies	2+1+1	Prerequisite: Biol 106/L and Biol 107/L passed with grades of "C" or better Corequisites: Biol 421L + 492B

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SELECTIVE PROGRAM, 27 UNITS REQUIRED

<p>1. MARINE BIOLOGY Choose THREE courses, 12 units</p>
<p>2. ELECTIVES Choose additional courses from the Marine Biology section, or from the Elective section (15 units) to total 27 upper division units</p>

1. MARINE BIOLOGY: Choose THREE courses (12 units)

Biol 313+313L+392B	Invertebrate Zoology	2+1+1
Biol 404+404L+492Y	Phycology	2+1+1
Biol 427A+427AL+49	Biology of Pelagic Organisms	2+1+1
Biol 429+429L+492I	Marine Ecology	2+1+1
Biol 430+430L+492B	Ichthyology	2+1+1
Biol 434+434L+492Q	Biology of Marine Fishes	2+1+1

2. ELECTIVES: Choose additional courses from the section above, or from the courses listed below to total 27 units in the Selective Program

Biol 312+312L+392F	Vertebrate Biology	2+1+1
Biol 316+316L	Plant Biology	3+1
Biol 403+403L	Plant Morphology	2+2
Biol 406+406L+492K	Flowering Plant Systematics	2+1+1
Biol 407+407L+492N	Plant Ecology	2+1+1
Biol 409+409L+492J	Non-Flowering Plants	2+1+1
Biol 414+414L+492A	Avian Ecology	2+1+1
Biol 415+415L+492M	Mammalogy	2+1+1
Biol 422+422L	Physiological Ecology	2+2
Biol 423+492F	Field Ecology	3+1
Biol 424+424L+492G	Ecological Modeling	2+1+1
Biol 425	Animal Behavior	3
Biol 427+427L+492H	Principles of Ecology	2+1+1
Biol 428+428L+492W	Wildlife Ecology & Mgmt.	2+1+1
Biol 433+433L	Biology of Marine Tetrapods	2+1
Biol 452+452L	Molecular Markers in Evol. Studies	2+2
Biol 453+453L+492Z	Behavioral Ecology	2+1+1
Biol 456 + 492O	Conservation Biology	3+1
Biol 481+481L	Plant Physiology	2+2
Biol 490, 495, 499, 526*	Tutorial Studies, Directed Research	1 to 3
Biol 492D (concurrent/prior enrollment in Bio 425 required)	Animal Behavior Field Studies	1
Biol 502+502L**	Biometry and Lab	4
Biol 532+532L	Advanced Ichthyology and Lab	2+2
Biol 560	Advanced Topics in Evolution	3
Geol 322+322L	Introductory Oceanography/Lab	3+1

* Up to 3 units maximum can be applied towards electives

**Cannot be applied towards electives if used to satisfy a required course.