

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
BACHELOR OF SCIENCE IN BIOLOGY, ECOLOGY AND EVOLUTIONARY BIOLOGY (OPTION II)

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 101 Corequisite: Chem 102, 102L, and 102 Discussion must be taken concurrently
Phys 100A	General Physics I	3	Prerequisite: Math 103, 104, 105 or Math 106 or a score on the MPT sufficient for entry into Math 255A
Phys 100B	General Physics II	3	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 101 Corequisite: Chem 333, 333L, and 333 Discussion must be taken concurrently Prerequisite: Chem 333/L with a grade of "C-" or better in 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

SELECTIVE PROGRAM, 32 UNITS REQUIRED

1. ECOLOGY: Choose THREE courses
2. BOTANY: Choose ONE course
3. ZOOLOGY: Choose ONE course
4. ELECTIVES: Choose ONE additional Botany or Zoology course, then; select additional courses from any section to total 32 upper division units

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1. ECOLOGY: Choose THREE Courses

COURSE	TITLE	UNITS
Biol 407+407L+492N	Plant Ecology †	2+1+1
Biol 414+414L+492A	Avian Ecology ††	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 426+426L+492P	Biology of the Deserts	2+1+1
Biol 427+427L+492H	Principles of Ecology	2+1+1
Biol 428+428L+492W	Wildlife Ecology & Mgmt.	2+1+1
Biol 429+429L+492I	Marine Ecology	2+1+1
Biol 439+439L+492S	Tropical Ecology & Conservation	2+1+2
Biol 448+492U	Tropical Biodiversity	2+1
Biol 453+453L+492Z	Behavioral Ecology	2+1+1
Biol 456 + 492O	Conservation Biology	3+1

2. ZOOLOGY: Choose ONE Course

COURSE	TITLE	UNITS
Biol 312+312L+392F	Vertebrate Biology	2+1+1
Biol 313+313L+392B	Invertebrate Zoology	2+1+1
Biol 412+412L+492E	Herpetology	2+1+1
Biol 413+413L+492AA	Entomology	2+1+1
Biol 414+414L+492A	Avian Ecology ††	2+1+1
Biol 415+415L+492M	Mammalogy	2+1+1
Biol 425	Animal Behavior	3
Biol 430+430L+492BB	Ichthyology	2+1+1
Biol 433+433L	Biology of Marine Tetrapods	2+1
Biol 446+446L+492T	Biology of Tropical Vertebrates	2+1+2

3. BOTANY: Choose ONE Course

COURSE	TITLE	UNITS
Biol 316+316L	Plant Biology	3+1
Biol 403+403L	Plant Morphology	2+2
Biol 404+404L+492Y	Phycology	2+1+1
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 438+438L+492R	Tropical Botany	2+1+2
Biol 481+481L	Plant Physiology	2+2

4. ELECTIVES: Choose one additional Botany or Zoology course, then; select additional courses from any section to total 32 upper division units

COURSE	TITLE	UNITS
Biol 315+315L	Principles of Microbiology	2+2
Biol 419+419L+492C	Microbial Ecology	2+1+1
Biol 421+421L+492B	Marine Biology	2+1+1
Biol 427A+427AL+492L	Biology of Pelagic Organisms	2+1+1
Biol 435+435L	Parasitology	2+2
Biol 437+437L+492V	Fungi	2+1+1
Biol 452+452L	Molecular Markers in Evolutionary Studies	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 510	Seminar in Tropical Biology	3
Biol 560	Advanced Topics in Evolution	3
Geol 508/L OR Geol 513/L	Invertebrate Paleontology and Lab Micropaleontology and Lab	3+1 2+2

†† Biol 414+414L+492A may be used to fulfill either the Zoology or the Ecology requirement, but not both

* No more than three units combined

"Tropical" courses often only offered in Tropical Semester