

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
BACHELOR OF SCIENCE IN BIOLOGY, BIOTECHNOLOGY (OPTION IV A)

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/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 380/381	Cell Biology and Lab	3+1	Prerequisite: Biol 106/L and Biol 107/L passed with grades of "C" or better; Chem 102/L or Chem 104
Chem 333/L	Principles of Organic Chemistry I and Lab	4+1	Prerequisite: Chem 102/L with a grade of "C-" or better in 102 Corequisite: Chem 333, 333L, and 333 Discussion must be taken concurrently
Chem 334/L	Principles of Organic Chemistry II and Lab	3+1	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
Chem 464/L	Principles of Biochemistry and Lab	3+1	Prerequisite: Chem 334. Preparatory: Chem 321/L Corequisite: 464L taken with lecture, or after

REQUIRED COURSES

COURSE	TITLE	UNITS	PREREQUISITES & CO-REQUISITES
Biol 315/L	Principles of Microbiology	2+2	Prerequisite: Biol 106/L and 107/L with a grade of "C" or better; Chem 102/L. Preparatory: Chem 333 Corequisite: Biol 315L must be taken concurrently
Biol 470	Biotechnology	3	Prerequisite: Biol 360. Preparatory: Biol 380
Biol 472/L	Recombinant DNA Techniques and Lab	2+2	Prerequisite: Biol 360, Chem 102/L. Preparatory: Biol 380 Corequisite: Biol 472L must be taken concurrently
Biol 477/L	Cell and Tissue Culture and Lab	2+2	Prerequisite: Biol 380. Preparatory: Biol 315/L Corequisite: Biol 477L must be taken concurrently

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SELECTIVE PROGRAM, CHOOSE TWO COURSES (6-8 UNITS)

COURSE	TITLE	UNITS
Biol 330/L	Design and Analysis of Experiments and Lab	2+1
Biol 382/L	Human Anatomy/Physiology I and Lab	3+1
Biol 383/L	Human Anatomy/Physiology II and Lab	3+1
Biol 408/L	Applied Microbiology and Lab	2+2
Biol 417/L	Microbial Physiology and Lab	2+2
Biol 418/L	Bacterial Diversity and Lab	2+2
Biol 419/L + 492C	Microbial Ecology	2+1+1
Biol 431/L	Food Microbiology and Lab	2+2
Biol 437/L + 492V	Fungi	2+1+1
Biol 442/L	Developmental Biology and Lab	2+2
Biol 444	Biology of Viruses	3
Biol 461	Molecular Genetics of Microorganisms	3
Biol 462	Molecular Genetics of Eukaryotic Organisms	3
Biol 464	Human Biochemical Genetics	3
Biol 466	Genetics of Bacteria and Their Viruses	3
Biol 468	Human Genetics	3
Biol 471A	Molecular Diagnostics	3
Biol 473	Clinical Cytogenetics and Cancer Genetics	3
Biol 475/L	Biological Imaging and Lab	2+2
Biol 476	Topics in Stem Cell Biology (Bridges only)	3
Biol 479	Endocrinology	3
Biol 480/L	Cellular Physiology and Lab	2+2
Biol 481/L	Plant Physiology and Lab	2+2
Biol 482/L	Animal Physiology and Lab	2+2
Biol 483/L	Principles of Neurophysiology and Lab	3+1
Biol 485/L	Immunology and Serology and Lab	2+2
Biol 493	Mechanisms of Bacterial Pathogenesis	3
Biol 503/L	Bioinformatics and Lab	3+1
Biol 551/L	Computer Modeling in Biology and Lab	2+2
Chem 321/L	Chemical Analysis and Lab	2+2