

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE  
BACHELOR OF SCIENCE IN BIOLOGY, MICROBIOLOGY (OPTION III)

**Lower Division Core**

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

**Upper Division Core**

COURSE	TITLE	UNITS	PREREQUISITES & CO-REQUISITES
Biol 322	Evolutionary Biology	3	<b>Prerequisite:</b> Biol 106/L and Biol 107/L passed with grades of "C" or better
Biol 360	Genetics	3	<b>Prerequisite:</b> 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	<b>Prerequisite:</b> 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	<b>Prerequisite:</b> Chem 102/L with a grade of "C-" or better in 102 <b>Corequisite:</b> Chem 333, 333L, and 333 Discussion must be taken concurrently
Chem 334/L	Principles of Organic Chemistry II and Lab	3+1	<b>Prerequisite:</b> Chem 333/L with a grade of "C-" or better in 333 <b>Corequisite:</b> Chem 334 and 334L must be taken concurrently 334R is optional

**Required Courses**

COURSE	TITLE	UNITS	PREREQUISITES & CO-REQUISITES
Biol 315/L	Principles of Microbiology and Lab	2+2	<b>Prerequisite:</b> Biol 106/L and 107/L with a grade of "C" or better; Chem 102/L. Preparatory: Chem 333 <b>Corequisite:</b> Biol 315L must be taken concurrently
Biol 417/L	Microbial Physiology and Lab	2+2	<b>Prerequisite:</b> Biol 215/L or 315/L. Preparatory: Chem 333; Biol 380 <b>Corequisite:</b> Biol 417L
Biol 467/L	Bacterial Genetics and Lab	2+2	<b>Prerequisite:</b> Biol 315/L. Preparatory: Chem 333; Biol 380 <b>Corequisite:</b> Biol 467L

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**SELECTIVE PROGRAM, 20 UNITS REQUIRED**

<b>COURSE</b>	<b>TITLE</b>	<b>UNITS</b>
Biol 381	Cell Biology Lab	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 (NOT Currently Offered)	2+2
Biol 410/L	Medical Microbiology 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 435/L	Parasitology and Lab	2+2
Biol 437/L + 492V	Fungi	2+1+1
Biol 441/L	Embryology and Lab	2+2
Biol 444	Biology of Viruses	3
Biol 461	Molecular Genetics of Microorganisms (NOT Currently Offered)	3
Biol 466	Genetics of Bacteria and Viruses	3
Biol 470	Biotechnology	3
Biol 472/L	Recombinant DNA Techniques and Lab	2+2
Biol 475/L	Biological Imaging and Lab	2+2
Biol 476*	Topics in Stem Cell Biology (Bridges only)	3
Biol 477/L	Cell and Tissue Culture and Lab	2+2
Biol 485/L	Immunology and Serology and Lab	2+2
Biol 487/L	Hematology and Lab	2+2
Biol 489	Cellular Immunology	3
Biol 490, 495, 499, 526	Tutorial Studies, Research Units (no more than 3 units)	1-3
Biol 493	Mechanisms of Bacterial Pathogenesis	3
Biol 536	Medical Mycology	3
Biol 551/L	Computer Modeling in Biology and Lab	2+2
Chem 321/L	Chemical Analysis and Lab	2+2
Chem 464/L	Principles of Biochemistry and Lab	3+1