

UNM BIOLOGY MAJOR – BS TRACK – 37 HOURS
 This information is effective for the **FALL 2015** catalog

All course in Biology and supportive courses must be completed with a minimum grade of C or higher.

Note: In order to fulfill the 50% major residency requirement, at least 19 credit hours of biology major coursework must be completed at UNM.

1: Complete the 4-course introductory sequence:

Introductory Courses	Course Name	Credit Hours	Pre/Co-Requisites
BIOL 201L	Molecular & Cell Biology	4	Prerequisite: CHEM 121 & 123L
BIOL 202L	Genetics	4	Prerequisites: CHEM 121 & 123L and BIOL 201L <i>Pre or Co-requisite: CHEM 122 & 124L</i>
BIOL 203 & 203L	Ecology & Evolution	4 (3/1)	Prerequisites: CHEM 121 & 123L, CHEM 122 & 124L, BIOL 201L, BIOL 202L <i>Pre or Co-requisite: MATH 180 (or MATH 162)</i>
BIOL 204 & 204L	Plant & Animal Form & Function	4 (3/1)	Prerequisites: CHEM 121 & 123L, CHEM 122 & 124L, BIOL 201L, BIOL 202L, BIOL 203 & 203L, MATH 180 (or 162)

2: Complete ONE (1) of the following 300-level courses w/lab:

300-level Course w/lab	Course Name	Credit Hours	Prerequisites
BIOL 351 & 352L	General Microbiology	4 (3/1)	Prerequisites: BIOL 204 & 204L
BIOL 360L	General Botany	4	Prerequisites: BIOL 203 & 203L, 204 & 204L
BIOL 371L	Invertebrate Biology	4	Prerequisites: BIOL 203 & 203L, 204 & 204L
BIOL 386L	General Vertebrate Zoology	4	Prerequisites: BIOL 203 & 203L, 204 & 204L

3: Complete FOUR (4) 400-level courses from THREE (3) different categories/areas: (Prerequisites vary; check catalog. BIOL 400, BIOL 402, BIOL 499 cannot count toward this requirement.)

400-level Course	Course category/area	Course category/area
1)		Any
2)		<i>Must be different category/area than course #1 & #3</i>
3)		<i>Must be different category/area than course #1 & #2</i>
4)		Any

400-level course categories/areas listed on reverse

4: Complete additional biology major elective courses so that the total number of biology hours totals at least 37.

Courses	Credit hours

The following courses **cannot be applied toward biology elective hours:** BIOL 110, BIOL 112L, BIOL 123, BIOL 124L, and BIOL 239L.

Up to 4 credit hours of BIOL 402 may be applied toward the biology elective hours.

Up to 4 credit hours of BIOL 400 may be applied toward the biology elective hours.

Up to 2 credit hours of BIOL 499 may be applied toward the biology elective hours.

BIOL 423 may be used toward the biology elective hours **ONLY** if it is not being used toward the chemistry minor.

Supportive Courses

MATH

MATH 180	Elements of Calculus I	OR	MATH 162	Calculus I	Engineering/Math/Physics majors
MATH 181	Elements of Calculus II		MATH163	Calculus II	Engineering/Math/Physics majors

PHYSICS

PHYC 151	General Physics I	OR	PHYC 160	General Physics I	Engineering/Math/Physics majors
PHYC 152	General Physics II		PHYC 161	General Physics II	Engineering/Math/Physics majors

CHEMISTRY

CHEM 121/123L	General Chemistry I w/lab	OR			
CHEM 122/124L	General Chemistry II w/lab				
CHEM 301/303L	Organic Chemistry I w/lab		CHEM 212	Integrated Organic Chemistry & Biochemistry	

Section 3 Requirement: Choose courses from at least three (3) different categories/areas:

CELL/MOLECULAR (CM)

401 Topics in Cell and Molecular Biology (3)
 410 Genome & Computational Biology (3)
 412 Developmental Biology (3)
 425 Molecular Genetics (3)
 428 Human Heredity (3)
 429 Molecular Cell Biology (3)
 444 Genomes and Genomic Analysis (3)
 446L Lab Methods in Molecular Biology (4)
 450 Virology (3)
 490 Infectious Organisms (3)
 497 Principles of Gene Expression (3)
 498L Genome Editing (3)

INTERDISCIPLINARY (ID)

419 Topics in Interdisciplinary Science (3)
 470L Biology: Discovery & Innovation (4)
 471 Plant Physiological Ecology (3)
 480 Global Change Biology (3)
 492 Introduction to Mathematical Biology (3)
 495 Limnology (3)

PHYSIOLOGY (PH)

404 Topics in Physiology (3)
 416L Histology (4)
 435L Animal Physiology (4)
 445 Biology of Toxins (3)
 456 Immunology (3)
 460 Microbial Physiology (3)
 478L Plant Physiology (4)

ECOLOGY/EVOLUTION (EE)

405 Ecosystem Dynamics (3)
 408L Bosque Internship (3) (Can Be Taken Multiple Times)
 409 Topics in Ecology and Evolution (3)
 436L Phylogenetics (4)
 437 Evolutionary Genetics (3)
 451 Microbial Ecology (3)
 455 Ethology: Animal Behavior (3)
 461L Introduction to Tropical Biology (3)
 475 Plant Community Ecology (3)
 491 Population Genetics (3)
 494 Biogeography (3)

ORGANISMAL (OR)

406 Topics in Organismal Biology (3)
 463L Flora of New M Exico (4)
 482L Parasitology (4)
 484 Biology of Fungi (4)
 485L Entomology (4)
 486L Ornithology (4)
 487L Ichthyology (4)
 488L Herpetology (4)
 489L Mammalogy (4)

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