Degree Requirements for Microbiology Majors (2010-2011)

The following contains information on the courses required to fulfill a degree in Biology at New Mexico State. A **minimum of 128 credits must be taken, 48 at the 300 level or above.** Below you will find a listing of courses that must be taken to fulfill departmental requirements as well as College of Arts and Sciences requirements. You must earn a **C or better** in all departmentally required classes.

**BIOLOGY DEPARTMENTAL REQUIREMENTS**

**Biology courses (at least 20cr., upper division Microbiology [Genetics does not count toward this]):**

- BIOL 111G & L  Natural History of Life and Lab
- BIOL 211G & L  Cellular & Organismal Biology and Lab
- BIOL 305  Principles of Genetics
- BIOL 311  General Microbiology
- BIOL 311L  General Microbiology Lab
- BIOL 451  Physiology of Microorganisms
- BIOL 474  Immunology
- BIOL 478  Molecular Biology of Microorganisms
- BIOL 479  Medical Microbiology
- BIOL 479L  Medical Microbiology Laboratory

- Additional upper division Microbiology Elective (to reach 24 Microbiology credits)
  - May include: BIOL 412  Seminar in Microbiology (1cr)
  - BIOL 473  Ecology of Microorganism (3cr)
  - BIOL 475  Virology (3cr.)
  - BIOL 476  Soil Microbiology (3cr.)
  - BIOL 477  Applied & Environmental Microbiology (3cr)

**Other departmental requirements (required non-biology classes)**

*Note: all of these courses are required*

- CHEM 111  General Chemistry I
- CHEM 112  General Chemistry II
- CHEM 211  Organic Chemistry
- CHEM 371  Analytical Chemistry
- BCHE 341  Survey of Biochem
- C S 110G Computer Literacy
- MATH 142G Calc for Bio & Mngmt Sci
- MATH 191  Calculus & Analyt. Geometry I
- PHYS 211  General Physics I
- PHYS 211L General Physics Lab I
- PHYS 212  General Physics II
- PHYS 212 L General Physics Lab II

**Total credits needed to reach 128:**

**Upper Division credits needed to reach 48:**

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NEW MEXICO COMMON CORE REQUIREMENTS

Area 1 – Communication (9-10 cr.)
ENGL 111G, 111H, or SPCD 111G
ENGL 203G, 211G, 218G, 311G or 318G
COMM 253G or 265G, HON 265G

Area 2 – Mathematics (3cr.)
Satisfied by taking departmental requirements

Area 3 – Laboratory Sciences (8cr.)
Satisfied by taking departmental requirements

A total of 15 credits (5 classes) must come from Areas 4 & 5.
2 classes from Area 4
2 classes from Area 5
1 class from either Area 4 or 5

Area 4 – Social/Behavioral Sciences (6-9cr.)
AG E/FSTE 210G
ANTH 120G, 125G, 201G, 202G, 203G
CEP 110G
CJ 101G
ECON 201G, 251G, 252G
GEOG 112G, 120G
GOVT 100G, 110G, 150G, 160G
HLS 150
JOUR 105G
LING 200G
PSY 201G
SOC 101G, 201G
S WK 221G
WS 201G, 202G

Area 5 – Humanities and Fine Arts (6-9cr.)
DANC 101G
ENGL 115G, 116G, 220G, 244G
  211G, 212G, 221G, 222G
  244G, 270G
MUS 101G, 201G
THTR 101G

Second Language – complete 112/113 level
_____ 111
_____ 112/113

American Sign language option: complete 375 level
Complete in sequence, CD 374,375

Waiver option: completed 2 yrs of language in H.S.

VIEWING A WIDER WORLD (6cr.)

Viewing a Wider World courses are a prescribed list of 300- and 400-level general education courses. You must take 2 courses from 2 different colleges.
(see list of VWW courses offered in the Class Schedule)

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