Degree Requirements for Microbiology Majors (2007-2008)

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 22cr., upper division):

- 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 22 credits)

May include:
- BIOL 412 Seminar in Microbiology (1cr)
- BIOL 473 Ecology of Microorganisms (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 or CHEM 313 Organic Chemistry I
- CHEM 371 Analytical Chemistry or CHEM 314 Organic Chemistry II
- CHEM 315 Organic Chemistry Lab
- BCHE 341 Survey of Biochem or BCHE 395 Biochemistry
- CS 110G Computer Literacy
- MATH 142G Calc for Bio & Mngmt Sci or MATH 191 Calculus & Analyt. Geometry I
- PHYS 211 General Physics I or PHYS 221 General Physics for Life Sciences I
- PHYS 211L General Physics Lab I or PHYS 211L General Physics Lab I
- PHYS 212 General Physics II or PHYS 222 General Physics for Life Sciences II
- PHYS 212 L General Physics Lab II or PHYS 212 L General Physics Lab II
NEW MEXICO COMMON CORE REQUIREMENTS

In each area the total credits needed must come from courses in different disciplines.

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.)
ANTH 120G, 125G, 201G, 202G, 203G
   HON 223G, 235G, 237G
CJ 101
ECON 201G, 251G, 252G
GEOG 112G, 120G
GOVT 100G, 110G, 150G, 160G
   HON 248G, 249G
LING 200G
PSY 201G
   HON 203G, 232G
SOC 101G, 201G
W S 201G, 202G

Area 5 – Humanities and Fine Arts (6-9cr.)
ART 101G, 110G, 295, 296, HON 216G
ENGL 115G, 116G, 220G, 244G
MUS 101G, 201G, HON 208G
   HON 225G, 226G, 227G, 228
THTR 101G, HON 270G

Second Language – complete 212/214 level
   __ 111
   __ 112/113
   __ 211/213
   __ 212/214
American Sign language option: complete 476 level
   Complete in sequence, CD 374,375,476
Waiver option: completed 3 yrs of H.S.

VIEWING A WIDER WORLD (6cr.)

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

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