

The University of New Mexico Core Curriculum (37 units)

Writing and Speaking: (3-9 units)

Mathematics: (3 units)

Physical and Natural Sciences: (7 units)

Social and Behavioral Sciences: (6 units)

Humanities: (6 units)

Foreign Language: (non-English language; 3 units)

Fine Arts: (3 units)

Arts and Sciences College Minimum Requirements

· Total credit hours = 128

· 300/400 level credit hours = 54 or 51 if 202 second language is completed

· Minimum credit hours taught in A&S = 96

University Residence Requirements

a. Minimum hours = 30

b. Senior standing = 15 past 92

c. In major = One half

d. In minor = One quarter

Minimum graduation GPA = 2.00

Keep in mind that minimum grades on road map are for individual coursework only. Students must maintain a minimum of a 2.0 cumulative grade point average for admission to and graduation from the College of Arts and Sciences. Minimums listed for the individual courses do NOT meet the cumulative minimum.

For more information see the catalogue at www.unm.edu

The Departmental Honors Program requires 2 semesters of an Honors Section of Physics 456. The student and faculty mentor present a mutually-agreeable topic to the department for approval. Also, the University requires a GPA of at least a GPA of at least 3.25. See the Honors web page for more information at <http://panda.unm.edu/AcadAdv/honors.html>

*Physics 167, 168, 267, 331, 311, 313, 311, 415, 416, 496, and 497 are all One Credit Hour Recitation Sections associated with Physics 160, 161, 262, and 330, 301, 303, 304, 405, 406, 491, and 492, respectively. These recitation sessions are practice in solving problems from the associated lecture courses. They are very useful and strongly recommended for the major.

**Recommended and will complete the Mathematics or Statistics Minor, it not taken another minor (or 2nd Major) must be completed.

Contact Information

Major Advisor:

Email:

Website: panda.unm.edu

Minor Advisor:

Email:

Website:

College Advisor:

Email:

Website: <http://artsci.unm.edu/advisement/index.html>

Notes:

1. There is room for up to 6 bio electives, if the other electives in Sems 7 and 8 are used.
2. Phyc 366, to be taken in Sem 5, may be substituted for Math 311 and 312, but then two additional Math or Stat >300 classes would be needed to get the Math minor. They could be taken as the two upper-division electives in Sem 8.
3. It is possible to satisfy the pre-med requirements of the UNM Med School by an appropriate choice of the electives. The Premed Advisement document gives the required classes.
4. Students planning to go to grad school in physics or biophysics are strongly advised to take Phyc 491 and 492 (QM I and II) for their upper-division electives.

BIOPHYSICS ELECTIVES:

Biol 425 Molecular genetics

Biol 429 Molecular Cell Biology (additional pre-reqs - Chem 212 (or Chem 301 and 303L))

Biol 436L Phylogenetics

Biol 437 Evolutionary Genetics

Biol 444 Genomes and Genomic Analysis

Biol 470 Biology: Discovery and Innovation

Biol 492 Introductory Mathematical Biology

Biol 446 Laboratory Methods in Molecular Biology

Biol 547 Advanced Techniques in Light Microscopy

BME 517 Applied Biology for Biomedical Engineers

BME 544 Mechanics/Thermodynamics of Molecular Components in Cells

BME 570 Physical Bioanalytical Methods

Bioc. 423 Introductory Biochemistry (pre-req Chem 302)

NSMS/CHNE 522L Fundamentals of Nanofluids

NSMS/CHNE 530 Surface and Interfacial Phenomena

Phyc 302 Introduction to Photonics

Phyc 302L Optics Lab

Phyc 410 Chemistry and Physics at the Nanoscale

Phyc 480 Special topics in Biophysics

Chem 301 and 303L Organic Chem I with Lab

Chem 302 and 304L Organic Chem II with Lab

Chem 315 Introductory Physical Chemistry

Note: Phyc 301 may provide good preparation for these classes