

Biotech at New Mexico State

A One Year Non-thesis Master of Science program in the Department of Biology, NMSU



The Biology Department at NMSU offers a one-year non-thesis Master in Science program with emphasis in Biotechnology. This program focuses on innovative technology and its relationship to life science business. It equips students to pursue successful careers in biotechnology, including basic and applied research, product development and testing, and policy-making. Students will complete coursework in molecular biology, genomics and bioinformatics, statistical analysis, business, bioethics and professional development skills. Additional graduate course work will provide students with further expertise in various areas of interest, including cell, molecular and microbiology; environmental, ecological and evolutionary biology; and systems and integrative biology.

Course Offerings: The program requires 30 credits for graduation. The curriculum consists of 12-15 credits per semester over two semesters with an optional summer internship. Prior coursework in Genetics and Biochemistry is expected.

Skills (9-10 cr)

Mol Biol Research Methods (BIOL 404/450)	3
Bioinformatics (BIOL 566, or GENE 452) or Genomics (BIOL 562)	3
Experimental Design & Analysis (A ST 505)	4

Professional Development (5-7 cr)

Ethical issues in Biology (BIOL 540/PHIL 540)	1 or 3
Professional Development (BIOL 541)	1
Entrepreneurship (MGT 591) or approved substitute	3

Biological Knowledge Electives (14-16 cr)

Students are expected to choose 5 or more courses numbered 450 or above in Microbiology, Organismal and Cellular Biology, Genetics or Ecology. See Biology department course listings in the NMSU Graduate Catalog.

Optional Internship (3-6 cr)

Summer research internship in a biotech company or in Biology Dept. lab (BIOL 598) Credits count towards the required elective credits.

For more information contact the program head Dr. Xu at jxu@nmsu.edu.