

## Biotech at New Mexico State

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



The Biology Department at NMSU offers a one-year non-thesis Master of Science program in Biology degree 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.

### **Reviewability & Eligibility**

To be reviewable, a student file must be complete including:

- all transcripts from undergraduate and, if applicable, other graduate institutions
- personal statement
- valid GRE general test scores\*
- basic biographical data required by admissions
- three letters of reference\*\*

\*GRE scores (general test only) are required, but no minimum is set. GRE validity will follow that determined by Education Testing Services, who administer the GRE program. Currently, scores are valid for five years from the testing year in which they are taken, which begins July 1. For example, valid scores for 2018 applications would be those taken on or after July 1, 2013. The GAA committee may consider substitution of the GRE by a similar (science-based) standardized exam, such as MCAT or DAT, if taken within two years of application. This may be allowed on a case-by-case basis at the request of the applicant.

\*\*Letters of reference must be submitted via the online application system. Each letter should evaluate the applicant's abilities with reference to graduate work, including potential for academic success in classwork. References should not be provided by anyone with a potential conflict of interest, such as personal friends or family members.

### **The application deadlines**

For Fall Entry: January 15, April 15

For Spring Entry: October 15

**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 550, cross-listed BIOL302)	3
Bioinformatics (BIOL 566), or GENE 452) or Genomics (BIOL 562)	3

Statistical Inference I (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](mailto:jxu@nmsu.edu) .