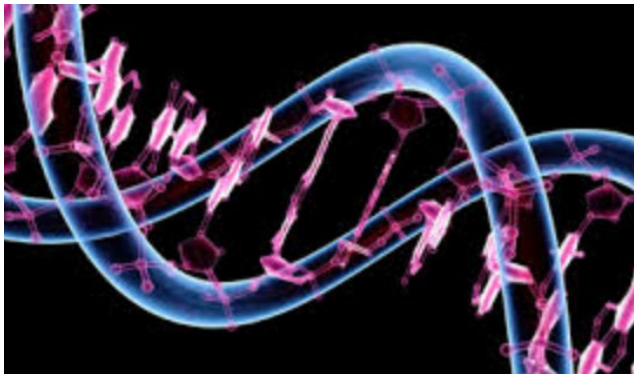


# Education

The genetics program at NMSU was hand-designed by faculty in order to provide a well-rounded and thorough undergraduate education in the sciences. A degree in Genetics and Biotechnology can serve as a foundation for aspiring scientists with a broad range of career goals. Our program is particularly unique because there are very few institutions in the country which offer a degree program devoted solely to genetics. Along with the emphasis on biotechnology, this gives our students an edge when applying for jobs, graduate school, or professional school.



Additionally, genetics students can supplement their studies with a second major, or with one of many minors. Minors are a fantastic way to personalize the college experience by providing a more individualized experience. For students interested in plant genetics, minors available within the Plant and Environmental Sciences department include agronomy, environmental sciences, soil science, and more. Pre-health students may be interested in minors based in other departments including human biology, chemistry, or public health.



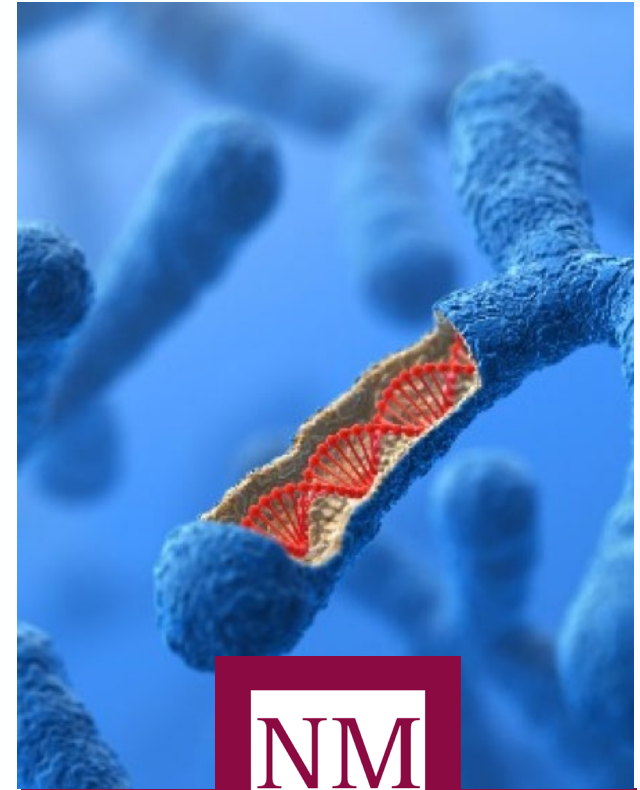
New Mexico State University is New Mexico's Land-Grant institution. Since 1888, NMSU has served as a comprehensive institution dedicated to teaching, research and service at the undergraduate level. The Department of Plant and Environmental Sciences is proud to provide a top-notch education to students from New Mexico and beyond through hands-on learning, personalized advising, and more. Schedule a tour today with us today!

Department of Plant and  
Environmental Sciences  
New Mexico State University  
P.O. Box 30003, MSC 3Q  
Las Cruces, NM 88003  
(575) 646-3405



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**New Mexico State University**  
[www.aces.nmsu.edu/academics/pes](http://www.aces.nmsu.edu/academics/pes)

# Genetics and Biotechnology



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# The Experience

In the department of Plant and Environmental Sciences, individual attention is provided for each and every student. No matter what you want to do with your degree post graduation, our advisors can help you plan accordingly so that you can achieve your goals.

In the genetics major, there are opportunities for research across campus through programs such as Howard Hughes Medical Institute Program and the MARC Program, as well as employment in laboratories. If desired, there is the possibility of completing an internship for course credit.



## Genetics & Biotech at NMSU

**Genetics** is the study of inheritance, or the passing down of genetic information packaged in chromosomes. **Biotechnology** utilizes the processes of living organisms to create new technologies or novel biopharmaceuticals. The Genetics and Biotechnology program integrates both subjects in order to provide a rigorous education in the application of the life sciences. **Required courses** include heredity and population genetics, molecular genetics, bioinformatics, microbiology, and genetics techniques laboratory.

### Faculty Advisors:

For further information or to schedule a visit, please feel free to contact one of the advisors for the genetics program or explore our websites listed below. We would love to talk to you about becoming an Aggie!

**Dr. Ian Ray:** iaray@nmsu.edu

**Dr. Jinfa Zhang:** jinzhang@nmsu.edu

**Dr. Christopher Cramer:** cscramer@nmsu.edu

### Website Directory:

**More about the Genetics & Biotech Degree:**

<https://aces.nmsu.edu/academics/pes/genetics-degree.html>

**Degree Requirements:**

<https://aces.nmsu.edu/academics/pes/genetics-requirements.html>

**Genetics Faculty:**

<https://aces.nmsu.edu/academics/pes/genetics-faculty.html>

# Post-Graduation Opportunities

**Industry:** The genetics program prepares students for a wide variety of industries ranging from horticulture and crop consulting, to biotechnology or pharmaceutical sales.

**Research:** For students interested in laboratory or field-based research, a bachelor's in genetics can prepare you to work as a research technician

**Graduate/Medical School:** Many of our graduates go on to pursue further education in the form of a masters or doctorate degree. The program also serves as fantastic preparation for those interested in genetic counseling, dental school, and medical school.

