

GENETICS



Geneticists seek to answer fundamental questions about how organisms inherit characteristics and transmit them to their offspring.

Geneticists also perform genome-wide studies to understand the function of all genes in an organism. As a genetics major, you will participate in research projects with faculty members and develop your own interests in preparation for a science career or graduate study. Genetics majors from UC Davis are prepared to enter careers in biotechnology, teaching, research and all the health sciences. Many graduates go on to further study in graduate programs, medical school, veterinary school or other professional schools.



UC DAVIS

COLLEGE OF BIOLOGICAL SCIENCES

WITH A DEGREE IN GENETICS, YOU WILL BE ABLE TO:

- Describe the molecular and structural unity of life
- Explain how the diversity of life is generated, perpetuated and exemplified among and within life's three domains
- Demonstrate how genetics and biochemistry inform the organization and function of cells
- Use quantitative methods to describe, evaluate and model biological processes
- Design and execute collection, evaluation and interpretation of experimental data
- Demonstrate scientific literacy: communicate scientific concepts, data and interpretation using multiple formats appropriate for target audiences
- Develop an in-depth understanding of key concepts in genetics and genomics; apply that knowledge to issues that impact health and society

GENETICS COURSE REQUIREMENTS:

Foundation courses: BIS 2ABC; MAT 17ABC or 21AB; CHE 2ABC; CHE 8AB or 118ABC; PHY 7ABC; STA 100

Depth subject courses: BIS 101, 102+103 or 105, 104; MCB 121, 182

A lab and two courses fulfill a genetics and genomics requirements; 9 units restricted electives

Units required for B.S. degree: 95-117

FOR MORE INFORMATION:

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