

BIOCHEMISTRY AND MOLECULAR BIOLOGY



Train in the experimental techniques used to probe the structures and functions of biologically important molecules.

The strong laboratory and research focus of this major prepares you for graduate study or to enter careers in high-growth areas such as biotechnology and healthcare research. Biochemistry and molecular biology majors are well prepared for research; teaching or service careers in the life sciences; and graduate programs in medicine, pharmacy, health sciences and biological sciences. Many graduates enter employment in the biomedical, biotechnology, pharmaceutical, agricultural research and chemical industries.



UC DAVIS

COLLEGE OF BIOLOGICAL SCIENCES

WITH A DEGREE IN BIOCHEMISTRY AND MOLECULAR BIOLOGY, 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
- Execute the collection, evaluation and interpretation of experimental data
- Demonstrate scientific literacy: communicate scientific concepts, data and interpretation using multiple formats appropriate for target audiences
- Understand biomolecular behavior based on fundamental physical and chemical principles

BIOCHEMISTRY AND MOLECULAR BIOLOGY COURSE REQUIREMENTS:

Foundation courses: BIS 2ABC; MAT 17ABC or 21AB C is recommended; CHE 2ABC; O-CHE 118ABC or 128ABC & 129AB; P-CHEM 107AB or 110AB; PHY 7ABC or 9ABC; STA 100

Depth subject courses: BIS 101-104; MCB 120L, 121, 123, 124

Restricted elective units required: 6

Units required for B.S. degree: 106 to 115

FOR MORE INFORMATION:

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