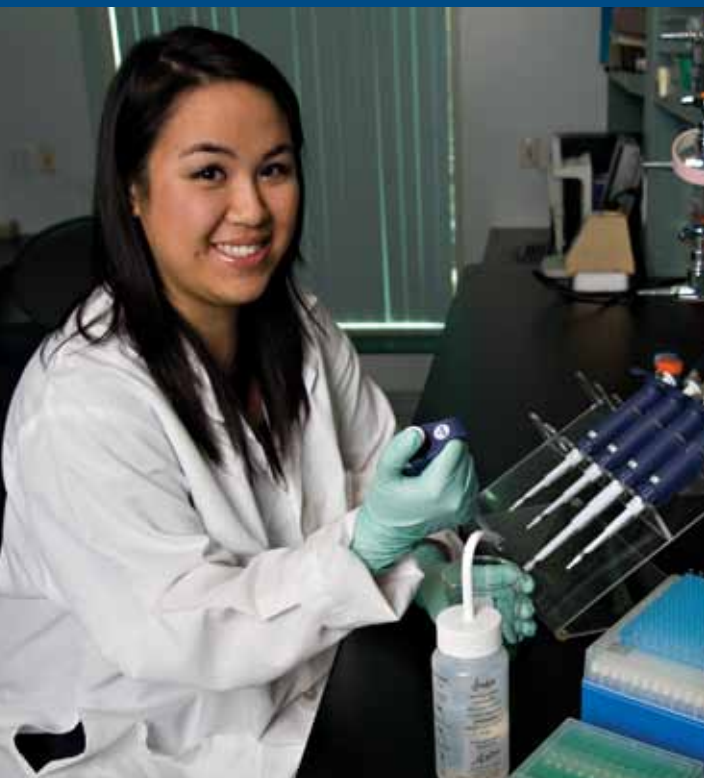


# CELL BIOLOGY



Study the fundamental processes necessary for organisms to grow, reproduce and negotiate their environments, and the principles that govern the organization and function of cells within the body.

Cell biology integrates principles from many disciplines, including chemistry, physics, genetics, biochemistry and physiology, for a more complete understanding of cell function. UC Davis cell biology majors may participate in research at the frontiers of genetics, disease processes and developmental biology. Career opportunities include research; teaching or service careers in the life sciences; graduate programs in the biological and health sciences.



**UC DAVIS**

**COLLEGE OF BIOLOGICAL SCIENCES**

## WITH A DEGREE IN CELL BIOLOGY, YOU WILL BE ABLE TO:

- Describe the cellular structure 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 collection, evaluation and interpretation of experimental data
- Demonstrate scientific literacy: communicate scientific concepts, data and interpretation using multiple formats appropriate for target audiences
- Understand mechanistically how macromolecules, macromolecular assemblies and organelles govern the organization, behavior, function and developmental fate of living cells

## CELL BIOLOGY COURSE REQUIREMENTS:

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

Depth subject courses: BIS 101-104; MCB 140L, 121, 142, 144, 145

Restricted electives in selected courses (CHE, EVE, MIC, MCB, NPB, PLB, PMI, MMI, CHA): 9

Units required for B.S. degree: 101-116

## FOR MORE INFORMATION:

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530.752.0410