**INTRODUCTION TO THE MAJOR**

The **Molecular and Cell Biology (MCB)** major focuses on the study of molecular structures and processes of cellular life and their roles in the function, reproduction, and development of living organisms. This covers a broad range of specialized disciplines, such as biochemistry, microbiology, biophysics, molecular biology, genetics, cell physiology, cell anatomy, immunology, and neurobiology.

The MCB major provides excellent preparation for many careers and post-baccalaureate training programs, including graduate programs and health-related professional programs (e.g., medicine, dentistry, optometry, pharmacy), science writing, law school, biotechnology, teaching, and academic research.

**EMPHASES IN MCB**

All MCB students complete the same lower division coursework to gain critical training in Biology, Mathematics, Chemistry, and Physics. Upon declaring the major, MCB students choose an emphasis, or concentration, which determines their upper division core courses and elective courses. There are five emphases in MCB:

- Biochemistry & Molecular Biology
- Cell & Developmental Biology
- Genetics, Genomics & Development
- Immunology & Pathogenesis
- Neurobiology

**AMPLIFY YOUR MAJOR**

- Take advantage of summer research opportunities in Berkeley or beyond.
- Explore math and science education and learn teaching skills with CalTeach.
- Conduct research and present your findings as part of the MCB Honors Program.

**My classes challenge me to think critically in an experimental setting, and my professors are constantly updating the course material with the latest findings.**

— Joanna Maltbaek, MCB major