

## SCHOOL OF MOLECULAR & CELLULAR BIOLOGY

## Instructional Program



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MCB provides students with a multitude of career options related to molecular genetics, cell biology, developmental biology, physiology, and biochemistry. Our curriculum is proven to successfully prepare students for biomedical careers, health professions, biotechnology careers, as well as academic research. MCB students have excellent opportunities to build competencies in critical thinking, communication, and leadership through our course work, research, and study abroad. These skills allow students to continue in diverse directions and pursue successful careers in many sectors of society.

### HEALTH RELATED CAREERS

- **MEDICINE, DENTISTRY, OPTOMETRY, PODIATRY, NURSING AND PHARMACY** and related health careers
  - Physician Assistant
  - Pathologist
  - Physician Research Scientist (M.D./Ph.D.)
  - Health Administration and Management
  - Clinical Ethicist
- **ALLIED HEALTH FIELDS**
  - Genetic Counseling
  - Physical Therapy or Occupational Therapy
  - Cytotechnologist
  - Pathologist Assistant
  - Anesthesiologist Assistant
  - Public Health: Behavioral Science/Health Education, Biostatistics, Environmental Health, Epidemiology

**VETERINARY MEDICINE:** Private practice, PhD vet bioscience, vet medicine specialties, e.g. dentistry, oncology, behavior

**INDUSTRY: BIOTECHNOLOGY, PHARMACEUTICAL, AGRICULTURAL, ENVIRONMENTAL:** Product design & development, diagnostics, management consulting, quality control, sales, public relations, customer support, regulatory compliance

### GOVERNMENT AGENCIES AND DEPARTMENTS

- Centers for Disease Control (CDC)
- Food and Drug Administration (FDA)
- National Institutes of Health (NIH)
- U.S. Department of Agriculture (USDA)
- Department of Energy (DOE)
- Department of Defense (DOD)
- National Aeronautics and Space Administration (NASA)
- Environmental Protection Agency (EPA)
- Federal Bureau of Investigation (FBI)
- National Security Agency (NSA) and Department of Homeland Security (DHS)

**NONPROFIT ORGANIZATIONS:** Global health care reform, medical centers and research institutes, health education councils, community health networks, global biotechnology development organizations

**FORENSIC SCIENCE:** Local, state and federal agencies, e.g. pathology, odontontology, toxicology

**ACADEMICS/EDUCATION:** K-12 education, lecturer, professor, university admin, research faculty, academic/career advisor

**BIOINFORMATICS:** Analysis, management and use of information in the biological sciences, predictive modeling

**SCIENCE AND RESEARCH POLICY:** Regulatory analysis, policy advising, international relations

**LAW:** Patent law, intellectual property, ethics

**SCIENCE WRITING, EDITING AND PUBLISHING:** Magazines, journals, textbooks, professional societies, nonprofit organizations, university, health organizations (medical scribe) and corporate communications

**ARTS AND HUMANITIES IN HEALTH:** Art therapy, medical history, medical illustration