

For 50 years, the Microbiology Program at California State University, Long Beach has been preparing its students for a vast range of careers. Our Microbiology majors go on to pursue PhDs, MDs, and other advanced degrees. Many others work in medical/allied health fields, biotechnology, pharmaceuticals, government agencies, the food industry, education, and research.

Today, Microbiology at CSU Long Beach is a distinct, well established Bachelor of Science degree program in the Department of Biological Sciences. The Program is highly recognized in the California State University, the biggest four-year university system in the nation. The Microbiology faculty recognize and promote diverse interests in our students and are committed to excellence in individualized instruction.

California State University-Long Beach is a large urban university in a park-like setting. It is conveniently located one mile away from the Pacific Ocean.



Surfing is one of many popular outdoor activities of the Microbiology students.

CSU Long Beach Microbiology Small Classes for Individualized Instruction



Dr. Itatani, a hematologist and immunologist, uses a state of the art multihead microscope to guide students through an exercise. Some of these Microbiology students are interested in the food industry, clinical research, medical technology, physician's assistant programs, or pharmacy.

CSU Long Beach Microbiology

- **Four-year Bachelor of Science degree program**
- **50 years of excellence in teaching**
- **Dedicated faculty**
- **Small classes for individualized instruction**
- **One-on-one mentoring**
- **Versatile degree tracks for expanding career options**
- **Excellent job placement**
- **Modern teaching and research facilities**
- **Scholarships and fellowships available**
- **Financial aid and student employment on campus**

For a personalized tour or for more information, please contact:

CSULB Student Chapter of American Society for Microbiology at asmcsulb@yahoo.com, or Dr. Carol Itatani, Undergraduate Adviser at citatani@csulb.edu

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California State University Long Beach

Department of Biological Sciences



Bachelor of Science in Microbiology 50 Years of Excellence

<http://www.csulb.edu/depts/biology/index.html>

CSU Long Beach Microbiology Path to Diverse Careers

Microbiology is the study of small life forms or microorganisms and their interactions with humans and the environment. Microorganisms are usually too small to be seen with the naked eye and include bacteria, yeasts, molds, protozoa, viruses, and prions. Despite their small size, they play a critical role in human life. Without them, human society would cease to exist. Some of them cause disease, but many others are beneficial. Because microorganisms are intimately associated with humans, microbiologists are in high demand in today's job market.

Career opportunities for microbiologists with undergraduate and graduate degrees are almost unlimited. A microbiologist may specialize in areas such as:

- Health professions (pre-medical, pre-dental, pre-veterinary, pre-pharmacy);
- Allied health professions (e.g. epidemiology, medical technology/clinical scientist, public health);
- Biotechnology and pharmaceuticals;
- Environmental protection/bioremediation;
- Food industry;
- Government (FDA, FBI, etc.);
- University teaching and research;
- Space industry (astromicrobiology).

Additional options can be found at <http://www.asmta.org/edusrc/edu21.htm>.

The career options are ever expanding. Recent concerns over some microorganisms as potential bioterrorism agents require many microbiologists in various specialties to join forces against terrorism. Now, more than ever, is the time to consider a career in microbiology!

<http://www.csulb.edu/depts/biology/index.html>

Top 10 Reasons To Consider A Microbiology Education at Cal State Long Beach

1. 50 years of excellence

- Highly recognized four-year Bachelor of Science degree program in California State University System
- American Society for Microbiology approved core curriculum

2. Individualized instruction

- Small classes
- One-on-one mentoring

3. Versatile degree program

- General microbiology
- Specialty fields
- Interdisciplinary options with physics, chemistry and cell molecular biology

4. Dedicated faculty

- Full time professors with doctoral degrees
- Low student-to-faculty ratios
- Research interests in major fields of microbiology

5. High success rate

- Graduation
- Job placement



Dr. Eveland, a mycologist and parasitologist, with his students in small group discussion. Some of the Microbiology majors at CSU Long Beach will pursue careers in medicine, public health, biomedical research, and biotechnology.



A Howard Hughes Medical Institute Undergraduate Honors student in Microbiology gives a poster presentation of her research in molecular genetics at an American Society for Microbiology conference. Many of our Microbiology majors conduct mentored research projects and participate in local, national, and international scientific conferences.

6. Modern teaching facilities

- Multimedia instruction
- Contemporary lab equipment
- High speed Internet access

7. Mentored undergraduate research

- Research opportunities in major fields of microbiology
- Participation in local, national, and international scientific conferences
- Research support from National Institutes of Health, National Science Foundation, Howard Hughes Medical Institute, etc.

8. Friendly peer support

- Student Chapter of American Society for Microbiology
- Student Access to Sciences and Mathematics Center

9. Successful careers

- Regionally, nationally, and internationally recognized alumni

10. Fulfilling student life

- Fraternities and sororities
- Multicultural environment
- Year-around outdoor activities

**CSU Long Beach Microbiology
Successful Program**