



# Master of Science in Biomedical Engineering

Achieve a career at the intersection of wellness and innovation

***Biomedical engineering is a rewarding and rapidly growing field dedicated to developing new medical equipment — improving the lives of patients and doctors alike. Engineers have been at the forefront of life-changing medical advancements such as new mobility aids, diagnostic tests, and more! With a master’s degree in Biomedical Engineering, you’ll be joining a profession of life-changing innovators — all while making a meaningful impact on the lives of countless individuals.***

## Establish yourself as an innovator

Our Biomedical Engineering program is designed to build on your scientific background and technical abilities — helping you advance your career and increase your lifelong earning potential. With a comprehensive curriculum taught by field experts, you’ll learn how to seamlessly integrate medical principles with engineering-based concepts — using modern techniques and equipment to solve the problems faced by doctors and patients every day.

## Immerse yourself in an interdisciplinary field

As a student in UB’s master’s in Biomedical Engineering program, you’ll gain the versatile interdisciplinary background necessary to set you apart in this competitive field. In addition to exploring how living things function, your classes will examine cross-cutting concepts from engineering and medicine.



## Master of Science in Biomedical Engineering

### Curriculum

The core curriculum consists of 16 credits.

To complete your degree, you must complete an additional 18 credits in electives, and the final 6 credits consist of a team-based project where you will complete a publishable, graduate-level research project.

Program requirements		
BMEG 565	Biomedical Materials and Engineering	3
BMEG 412	Bioelectronics	3
BMEG 580	Tissue Engineering	3
BMEG 620	Team Based Research	6
ENGR 400	Engineering Colloquia Series	1

View all courses offered and read full course descriptions in our course catalog ([www.bridgeport.edu/academics/course-catalog](http://www.bridgeport.edu/academics/course-catalog)).

The University of Bridgeport is accredited by the New England Commission of Higher Education. The University also is accredited by the Connecticut Office of Higher Education.

### Build critical skills in UB's cutting-edge labs

At UB, you'll have the exciting opportunity to perform interdisciplinary research, not only in the classroom but in UB's state-of-the-art labs. You'll gain hands-on experience performing team-based projects and research — preparing you with the knowledge, skills, and critical thinking necessary to make new discoveries in vital medical fields.

### Careers in biomedical engineering

A master's in Biomedical Engineering opens a variety of fulfilling career opportunities, including:

- Biomaterials developer
- Biomedical researcher
- Doctor
- Independent medical consultant
- Manufacturing engineer for the healthcare industry
- Medical technology developer
- And more!

### Admission requirements

#### Program prerequisites

- Bachelor's degree in engineering or a related STEM field from accredited university
- Recommended cumulative undergraduate GPA of 2.90 or higher

#### Required materials

- Application
- Official transcripts for the last degree earned
- Personal statement
- Resumé
- Two letters of recommendation