

Program Learning Outcomes

Biomedical Engineering

Program Educational Objectives

In 3-5 years after graduation we expect our graduates to:

1. Develop successful careers related to Biomedical Engineering or another area of the student's choosing, through employment in industry or government, or through pursuit of graduate or professional degrees; and
2. Contribute effectively to society through engineering practice, research and development, education, or in governmental, regulatory or legal aspects.

Student Outcomes

Our teaching is designed to impart a strong foundation in mathematics, life and physical sciences, and engineering, as well as knowledge of contemporary issues at the forefront of biomedical engineering research. Students completing the program will have:

1. an ability to apply knowledge of mathematics, science, and engineering
2. an ability to design and conduct experiments, as well as to analyze and interpret data
3. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. an ability to function on multidisciplinary teams
5. an ability to identify, formulate, and solve engineering problems
6. an understanding of professional and ethical responsibility
7. an ability to communicate effectively
8. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
9. a recognition of the need for, and an ability to engage in life-long learning
10. a knowledge of contemporary issues
11. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

<http://www.bme.ucdavis.edu/undergrad/>