

Biomedical Engineering

Biomedical engineering blends traditional engineering techniques with biological sciences and medicine to improve the quality of human health and life. The discipline focuses on understanding complex living systems via experimental and analytical techniques and on development of devices, methods and algorithms that advance medical and biological knowledge while improving the effectiveness and delivery of clinical medicine.

This program is accredited by the Engineering Accreditation Commission of ABET.

[Biomedical Engineering major page](#)

Before Graduating Students Must

- Pass assessment by two or more faculty and/or industry practitioners of student performance on a major design experience.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in the final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn to

Student Learning Outcomes (SLOs)

5. Solve biomedical engineering problems by applying knowledge of mathematics, science and engineering principles.
6. Design and conduct biomedical engineering experiments and analyzing and interpreting the data.
7. Design a biomedical device, component, technology or process to meet identified clinical needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability and regulatory constraints.
8. Communicate technical data and design information effectively in speech and in writing to other biomedical engineers.

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Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	Content	Critical Thinking		Communication
		SLO 1	SLO 2	SLO 3
BME 3060	A	I	I	I
BME 4409	A	I	I	R
BME 4503		R	I	R
BME 4503L	A		R	R
BME 4882			A	A
BME 4883			A	A

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Assessment Types

- Assignments
- Exams
- Projects
- Reports
- Presentations

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