

# Biomedical Engineering, Minor

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The minor in Biomedical Engineering requires a total of nine courses: two advanced mathematics courses, five core Biomedical Engineering courses, and two Biomedical Engineering electives. Some of these courses may include prerequisites that may or may not be part of a student's course requirements for their major. Private biomedical industry has indicated a keen interest in engineers that have a more traditional engineering degree (i.e., electrical engineering), but also possess some in-depth knowledge of biomedical systems. Hence, the minor in Biomedical Engineering is designed to provide a student with the introductory skills necessary to perform as an engineer in the biomedical arena.

NOTE: Students may not receive both a minor in Biomedical Engineering and a specialization in Biochemical Engineering within the Chemical Engineering major.

## Mathematics Courses:

MATH 3A	Introduction to Linear Algebra
MATH 3D	Elementary Differential Equations

## Engineering Topics Courses:

BME 1	Introduction to Biomedical Engineering
BME 50A- 50B	Cell and Molecular Engineering and Cell and Molecular Engineering
BME 120	Sensory Motor Systems
BME 121	Quantitative Physiology: Organ Transport Systems

## Technical Electives:

Students select, with the approval of a faculty advisor, two technical elective courses:

BME 110A	Biomechanics I
BME 110B	Biomechanics II
BME 130	Biomedical Signals and Systems
BME 135/BIO SCI D130	Photomedicine
BME 136	Engineering Medical Optics
BME 140	Design of Biomedical Electronics
BME 160	Tissue Engineering
BME 199	Individual Study
CBE 181	Polymer Science and Engineering
EECS 179	Microelectromechanical Systems (MEMS)
EECS 188	Optical Electronics