

B.S. in Biomedical Engineering

[Overview](#)

[Degree Requirements](#)

Description

This Bachelor of Science in Biomedical Engineering (BME) degree program will prepare engineering students at the University of Mississippi to capably apply advanced mathematics, science, and engineering to solve the problems at the interface of engineering, biology, and medicine. Moreover, the curriculum will prepare graduates with the ability to make measurements on and interpret data from living systems, addressing the problems associated with the interaction between living and non-living materials and systems.

The graduates of the program will be able to pursue (i) employment in biomedical or related industries (ii) graduate studies in biomedical engineering or related discipline, and (iii) pursue professional careers in medicine, dentistry, pharmacy, or patent law.

Minimum Total Credit Hours: 127

General Education Requirements

Students must complete at least 18 semester hours of general education requirements: 3 hours in humanities, 3 hours in fine arts, 3 hours in humanities/fine arts, 6 hours in social science (including Econ 310), and the remaining 3 hours can be in any of the humanities/fine arts, social science, or [general education courses as specified by the School of Engineering](#).

Course Requirements

Specific requirements for the B.S. in BME include Writ 100, Writ 101, or Hon 101; Writ 102, Liba 102 or Hon 102; Math 261-264, Math 353; Chem 105, 106, 115, 116, 221, 225; Phys 211, 212, 221, 222; Bisc 160, 161; Csci 251; Econ 310; Engr 310, 360, 400; El E 313, 314, 331; Ch E 307, 308; BME 200, 222, 333, 444, 461, 462.

Specializations

- [Emphasis - Bioinformatics](#)
- [Emphasis - Biomedical](#)
- [Emphasis - Biomolecular](#)

