BIOMEDICAL ENGINEERING MINOR

Undergraduate students can take biomedical engineering courses and earn a minor. This minor is intended for undergraduate engineering students seeking to supplement their education by applying skills learned in their respective disciplines to the field of biomedical engineering.

The minor in biomedical engineering requires: a) a minimum of 18 hours of coursework; b) a GPA of 2.5 in these courses; and c) no grade lower than a C in any BME course. At the discretion of the BME department chair (or designee), a limited number of equivalent course substitutions (6 credit hours) may count toward the requirements for this minor. At least 12 credits must have the BME prefix.

Required course:
BME 301 - Fundamentals of Biomedical Engineering (3 credits)

Elective courses (select five of the following*):
BME 395 - Independent Research in Biomedical Engineering (1-6 credits)
BME 405 - Introduction to Biomedical Signal Processing (3 credits)
BME 472 - Human Biomechanics (3 credits)
BME 485 - Fundamentals of Biofluid Mechanics (3 credits)
BME 488 - Introduction to Biomaterials (3 credits)
BME 508 - Cell Mechanics and Mechanobiology (3 credits)
BME 515 - Modeling of Physiological Systems (3 credits)
BME 530 - Biomedical Instrumentation (3 credits)
BME 540 - Mechanical Modeling of Human Motion (3 credits)
BME 579 - Neural Engineering (3 credits)
BME 580 - Introduction to Biomedical Imaging (3 credits)
BME 481G - Topics in Biomedical Engineering (Subtitle required) (3 credits)
BME 599 - Topics in Biomedical Engineering (Subtitle required) (3 credits)

*up to 6 credit hours of independent research (BME 395) or special topics courses (BME 481G or BME 599) may count as electives.

SUPPLEMENT YOUR STUDIES WITH A BIOMEDICAL ENGINEERING MINOR

“Biomedical engineering is a growing industry and our ability to augment a student’s engineering education with specialized courses leading to a minor demonstrates our commitment to developing students who can make a difference.”

– Dean Larry Holloway

F. Joseph Halcomb III, M.D.
Department of Biomedical Engineering
522 Robotics and Manufacturing Building
Lexington, KY 40506-0108
(859) 257-8101
bmedgs@uky.edu

An Equal Opportunity University

seeblue.