BIOMEDICAL ENGINEERING, MINOR

Program Overview

The Department of Biomedical Engineering offers a minor in biomedical engineering for undergraduate students who have completed the Engineering (technical) Core requirements for the Case School of Engineering.

Undergraduate Policies

For undergraduate policies and procedures, please review the Office of Undergraduate Studies section of the General Bulletin.

Program Requirements

A minor in biomedical engineering is offered to students who have taken the Engineering (technical) Core requirements. The minor consists of an approved set of five EBME courses.

Code	Title	Hours
Required Courses		
EBME 201	Physiology-Biophysics I	3
EBME 202	Physiology-Biophysics II	3
Elect three of the following with at least one from the BME core *(assumes prerequisites satisfied):		9
EBME 306	Introduction to Biomedical Materials	
EBME 308/358	Biomedical Signals and Systems **	
EBME 309/359	Modeling of Biomedical Systems	
EBME 310/360	Principles of Biomedical Instrumentation	
EBME 303	Structure of Biological Materials	
EBME 305	Materials for Prosthetics and Orthotics	
EBME 307	Biomechanical Prosthetic Systems	
EBME 316	Biomaterials for Drug Delivery	
EBME 320	Biomedical Imaging	
EBME 325	Introduction to Tissue Engineering	
EBME 327	Bioelectric Engineering	
EBME 350	Quantitative Molecular, Cellular and Tissue Bioengineering	
EBME 361	Biomedical Image Processing and Analysis	
Total Hours		**15**

* EBME 306 Introduction to Biomedical Materials, EBME 308 Biomedical Signals and Systems (Coreq: EBME 358), EBME 309 (Coreq: EBME 359), EBME 310 (Coreq: EBME 360)

** If a student has credit for ECSE 246 Signals and Systems Signals and Systems, EBME 308 (Coreq: EBME 358) will not satisfy a BME minor requirement.