MINOR IN BIOMEDICAL ENGINEERING

The goal of the minor program is to educate students in how to apply engineering fundamentals to solve problems in biology and medicine. The program should be of particular interest to those students who plan to pursue advanced degrees in biomedical engineering and/or medicine.

Minor Program of Study & Guidelines

Program of Study

The Biomedical Engineering minor must comprise at least 15 credit hours, of which at least 9 credit hours are upper-division coursework (numbered 3000 or above).

Code	Title	Credit Hours
Required Courses		
Choose one:		3
BIOS 3753	Fundamentals of Human Anatomy	
BMED 3100	Systems Physiology	
Biosciences		
Select at least one of the following:		3
BIOS 4100	Exercise Physiology	
BIOS 4200	Kinesiological Basis of Human Movement	
BIOS 3755	Human Physiology	
BIOS 1107	Biological Principles	
BIOS 2600	Genetics	
BIOS 4570	Immunology	
CHEM 3511	Survey of Biochemistry	
CHEM 4511	Biochemistry I	
CHEM 4512	Biochemistry II	
Biomedical Engineering		
Select at least 9 credit hours from the following:		9
BMED/ME 4757	Biofluid Mechanics	
BMED/ME 4758	Biosolid Mechanics	
BMED 4400	Neuroengineering Fundamentals	
BMED 4477	Biological Networks and Genomics	
BMED 4500	Cell and Tissue Engineering Laboratory	
BMED 4783	Introduction to Medical Image Processing	
BMED/ CHBE/ CHEM 4765	Drug Design, Development and Delivery	
BMED/ECE 4783	Introduction to Medical Image Processing	
BMED/ECE 4784	Engineering Electrophysiology	
BMED 4751	Introduction to Biomaterials	
BMED 4750	Diagnostic Imaging Physics	
BMED/ CHBE/ ECE/ME 4781	Biomedical Instrumentation	
BMED/ CHBE/ ECE/ME 4782	Biosystems Analysis	
Total Credit Hours		**15**

- A maximum of 6 creditr hours of approved Special Topics courses may be included in a minor program.
- A maximum of 3 credit hours of transfer credit may be used to satisfy the course requirements for a minor. This includes courses taken at another institution or credit earned through the AP or IB program, assuming the scores meet Georgia Tech minimum standards.
- All courses counting toward the minor must be taken on a letter-grade basis and must be completed with a grade of C (2.00) or better.
- It is the **major advisor's responsibility** to verify that students are using only courses from the designated block(s) from the student's major field of study that are allowed to satisfy a minor program, that they are not using any Core Area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Any free elective course used to satisfy the course requirements of the student's major degree program may also be used to satisfy the course requirements for a minor.