

MINOR IN PHYSIOLOGY

Physiology is a highly integrative and complex discipline that provides the foundation for careers in many areas of scientific research, engineering design, clinical practice and public policy. As such, the School of Biological Sciences within the College of Sciences supports this minor concentration in Physiology. The School of Biological Sciences already offers a certificate; thus, the ability to offer a minor with a modest increase in credit hours is feasible and within the capacity of the host School. The curriculum includes both core courses and electives that are currently offered, and provides fundamental training in the structure and function of the human body (anatomy and physiology) as well as in-depth areas within the discipline (muscle physiology, exercise physiology, motor control, neuroanatomy, kinesiology, nutrition) and applications of this knowledge (sport science, medicine).

Minor Program of Study & Guidelines

Program of Study

Code	Title	Credit Hours
Required Courses		
BIOS 3753	Fundamentals of Human Anatomy	3
BIOS 3755	Human Physiology	3
Biological Sciences Electives ^{1,2}		9
BIOS Elective options (a minimum of 6 BIOS hours is required):		
BIOS 2500	Introduction to Sport Science	
BIOS 3000	Survey of Medicine	
BIOS 3450	Cell and Molecular Biology	
BIOS 3451	Cell and Molecular Biology Lab	
BIOS 3754	Laboratory in Human Anatomy	
BIOS 3756	Physiology Laboratory	
BIOS 4100	Exercise Physiology	
BIOS 4200	Kinesiological Basis of Human Movement	
BIOS 4238	Ion Channels	
BIOS 4400	Human Neuroanatomy	
BIOS 4418	Microbial Physiology	
BIOS 4464	Developmental Biology	
BIOS 4540	Human Motor Control	
BIOS 4699	Undergraduate Research	
BIOS 4803	Special Topics	
Non-BIOS elective options:		
BMED 3100	Systems Physiology	
ECE 4781	Biomedical Instrumentation	
LMC 3318	Biomedicine and Culture	
ME 4757	Biofluid Mechanics	
ME 4758	Biosolid Mechanics	
PSYC 2230	Abnormal Psychology	
PSYC 3020	Biopsychology	
PSYC 4090	Cognitive Neuroscience	
PSYC 4100	Behavioral Pharmacology	
NEUR 3001	Cell and Molecular Neuroscience	
Total Credit Hours		15

¹ Students must complete a minimum of 6 credit hours of BIOS courses. The remaining 3 credit hours of electives may be selected from the listed non-BIOS elective options or may be selected from the BIOS courses.

² A maximum of 6 credit hours of Special Topics courses may be included in a minor program or the student may complete 3 credit hours of Special Topics and 3 credit hours of either Special Problems or Undergraduate Research. Students may not use 6 credit hours of either Special Problems or Undergraduate Research for a minor. BIOS 4699 or BIOS 4803 must be approved by the minor advisor.

- Students must earn 'C' or higher in each minor course (no pass/fail credits)
- 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.
- 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.