BIOLOGY, B.S. - BS TO MS ACCELERATED PATHWAY

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall and a 3.0 cumulative GPA is required for graduation.

The department website provides an overview of the program, admission requirements (when applicable), faculty biographies, learning outcomes, and careers: https://www.southernct.edu/academics/biology/programs

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. To review more detailed information regarding these requirements, please visit http://catalog.southernct.edu/undergraduate/degree-requirements.html (General Education Requirements). Courses in the major and/or cognate may also be used to satisfy LEP requirements where noted below (*).

MAJOR REQUIREMENTS (37 Credits)

3.0 Major GPA Required

Biology Requirements (26 Credits)
BIO 102 – Biology I (‘C’ or better)
BIO 103 – Biology II (‘C’ or better) (T2LE)*
BIO 220 – Genetics (‘C’ or better)

ANATOMY/PHYSIOLOGY
One Entry Level:
BIO 230 – Plant Anatomy and Morphology
BIO 231 – Comparative Vertebrate Anatomy
BIO 235 – Histology
BIO 250 - Plant Diversity

BIODIVERSITY/ECOLOGY/ORGANISMAL BIOLOGY
One Entry Level:
BIO 202 – Ecology
BIO 210 – Environmental Biology and Conservation
BIO 215 - Animal Behavior
BIO 228 – Vertebrate Zoology
BIO 229 – Invertebrate Zoology

CELL/MOLECULAR
One Entry Level:
BIO 205 – Forensic Biology  
BIO 233 – Introductory Microbiology  
BIO 236 - Cell Biology  
BIO 240 – Human Heredity  
BIO 296 - Genomics I  

Required:  
BIO 499 – Independent Study and Research (3 cr)  

**Accelerated Pathway Requirements (11 Credits)**  

**ANATOMY/PHYSIOLOGY**  
One Upper Level ('B' or better required):  
BIO 505 - Marine Mammal Physiology  
BIO 529 - Endocrinology  
BIO 537 - Plant Anatomy and Physiology  
BIO 545 - Immunology  
BIO 552 - Human and Medical Genetics  
BIO 555 - Neurobiology  

**BIODIVERSITY/ECOLOGY/ORGANISMAL BIOLOGY**  
One Upper Level ('B' or better required):  
BIO 501 - Conservation Ecology  
BIO 502 - Population and Community Biology  
BIO 504 - Evolution  
BIO 512 - Marine Invertebrate Ecology  
BIO 513 - Coastal Ecosystem Management  
BIO 525 - Ichthyology  
BIO 526 - Herpetology  
BIO 534 - Stream Ecology  
BIO 536 - Marine Algae  
BIO 540 - Biogeography  
BIO 582 - Biological Illustration  

**CELL/MOLECULAR**  
One Upper Level ('B' or better required):  
BIO 518 - Advanced Microbiology  
BIO 519 - Emerging Infectious Diseases  
BIO 541 - Tissue Culture Workshop  
BIO 547 - Virology  
BIO 551 - Molecular and Developmental Genetics  

Required:  
BIO 550 – Research Methods in Biology (1 credit)  
BIO 560 – General Topics Seminar (1 credit)
COGNATE REQUIREMENTS (28 Credits)

CHE 120 – General Chemistry I (T2PR)*
CHE 121 – General Chemistry II
CHE 260 – Organic Chemistry I
MAT 122 or MAT 150 – Precalculus or Calculus I (T1QR)*
MAT 221 – Intermediate Applied Statistics

Select one from:
1. PHY 200 and PHY 201 – General Physics I and II
2. PHY 230 and PHY 231 – Physics for Scientists and Engineers I and II