BIOLOGY, B.A.

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall 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 (36 Credits)

BIO 102 – Biology I (‘C’ or better)
BIO 103 – Biology II (‘C’ or better) (T2LE)*
BIO 220 – Genetics (‘C’ or better)
GPA of 2.3 in the following Content Areas

ANATOMY/PHYSIOLOGY
Select one Entry Level (4 credits):
BIO 200 - Human Anatomy and Physiology I
BIO 230 – Plant Anatomy and Morphology
BIO 231 – Comparative Vertebrate Anatomy
BIO 235 – Histology
BIO 250 – Plant Diversity

One Upper Level (4 credits):
BIO 301 – Physiology
BIO 401 – Comparative Physiology
BIO 405 - Marine Mammal Physiology
BIO 420 – Plant Physiology
BIO 454 – Brain: Anatomy and Transmission

BIODIVERSITY/ECOLOGY/ORGANISMAL BIOLOGY
Select one Entry Level (3-4 credits):
BIO 202 – Ecology
BIO 210 – Environmental Biology and Conservation
BIO 215 - Animal Behavior  
BIO 228 – Vertebrate Zoology  
BIO 229 – Invertebrate Zoology

Select one Upper Level (3-4 credits):
BIO 327 - Field Natural History (Belize)  
BIO 334 – Microbial Ecology  
BIO 337 – Medically Important Arthropods  
BIO 399 - Mammology  
BIO 427 – Entomology  
BIO 429 – Limnology  
BIO 430 – Marine Ecology  
BIO 432 – Mycology  
BIO 438 – Aquatic Entomology  
BIO 440 – Parasitic Infections  
BIO 460 – Paleontology

CELL/MOLECULAR
Select one Entry Level (3-4 credits):
BIO 205 – Forensic Biology  
BIO 233 – Introductory Microbiology  
BIO 236 - Cell Biology  
BIO 240 – Human Heredity  
BIO 296 - Genomics I

Select one Upper Level (4 credits):
BIO 325 - Immunology and Infection  
BIO 335 – Pathogenic Microbiology  
BIO 360 – Plant Growth and Development  
BIO 386 - Genomics II  
BIO 393 - Bioinformatics  
BIO 435 – Developmental Biology  
BIO 436 – Molecular Biology  
BIO 451 – Tissue Culture  
BIO 466 – Advanced Molecular and Cell Biology  
BIO 467 – Laboratory Course in Biotechnology

One Additional Upper Level Course:
Select one additional upper level course (3-4 credits) from:

any courses listed in the three upper level content areas above  
BIO 201 – Human Anatomy and Physiology II  
BIO 450 – Undergraduate Research Methods in Biology

You may also select one course from those listed below, all three of which require special departmental permission.
BIO 497 – In-service Training in Biology (3 cr)  
BIO 499 – Independent Study and Research (3 cr)
HON 495 – Senior Thesis (3 cr)

**COGNATE REQUIREMENTS (12 Credits)**

- CHE 120 – General Chemistry I (T2PR)*
- CHE 121 – General Chemistry II
- MAT 122 – Precalculus or MAT 150 – Calculus I (T1QR)*