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 Degree Requirements >> General Education (LEP) 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)*