BIOTECHNOLOGY, B.S.

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 (40 Credits)

GPA of at least 2.3 in the following major courses:

- BIO 102 - Biology I ('C' or better)
- BIO 103 - Biology II ('C' or better) (T2LE)*
- BIO 220 - Genetics ('C' or better)
- BIO 233 - Introductory Microbiology
- BIO 296 - Genomics I
- BIO 393 - Introduction to Bioinformatics
- BIO 396 - Synthetic Biology: Engineering Life (T3)*
- BIO 491 - Seminar in Biotechnology
- BIO 497 - In-Service Training in Biotechnology

Choose 1 From:
- BIO 386 - Practical Bioinformatics: Genomics II
- BIO 436 - Molecular Biology
- BIO 467 - Lab Course in Biotechnology

Choose 1 From:
- BIO 466 - Advanced Cell Molecular Biology
- BIO 451 - Tissue Culture Workshop

COGNATE REQUIREMENTS (31 Credits)

- CHE 120 - General Chemistry I (T2PR)*
- CHE 121 - General Chemistry II
- CHE 260 - Organic Chemistry I
- CHE 261 - Organic Chemistry II
MAT 150 - Calculus I (T1QR)*
MAT 221 - Intermediate Applied Statistics
PHY 230 - Physics for Scientists and Engineers I

Choose 1 From:
CHE 450 - Biochemistry I
CHE 458 - Drug Discovery
CHE 465 - Medicinal Chemistry