CHEMISTRY, B.S. - BIOCHEMISTRY

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/chemistry/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 (44 Credits)

GPA of 2.0 required in the major.

Chemistry Requirements (29 Credits)
CHE 120 – General Chemistry I
CHE 121 – General Chemistry II
CHE 240 – Analytical Chemistry
CHE 260 – Organic Chemistry I
CHE 261 – Organic Chemistry II
CHE 370 - Physical Chemistry I
CHE 435 - Inorganic Chemistry I
CHE 301, CHE 445 and CHE 496 - Chemistry Connection (T3)*

Concentration in Bio-Chemistry (15 Credits)
CHE 450 – Biochemistry I
CHE 451 – Biochemistry II

Select one (3 credits):
CHE 456 - Medicinal Chemistry
CHE 457 - Pharmacology
CHE 458 - Drug Discovery

Select one (minimum 1 credit):
CHE 371 - Physical Chemistry II
CHE 372 - Physical Chemistry Laboratory I
CHE 373 - Physical Chemistry Laboratory II
CHE 436 - Inorganic Chemistry Laboratory
CHE 440 - Instrumental Analysis
One additional CHE course at 300-level or above.

In order to receive a degree in chemistry from Southern Connecticut State University, along with satisfying the requirements listed above students must complete a minimum of 16 credits of advanced chemistry courses (300 level or above) at SCSU.

**COGNATE REQUIREMENTS (22 Credits)**

BIO 102 - Biology I  
BIO 103 - Biology II (T2LE)*  
MAT 150 – Calculus I (T1QR)*  
PHY 230 – Physics for Scientists and Engineers I (T2PR)*

Two additional BIO courses at 200-level or above. A grade of C or better is required in both BIO 102 and 103 to take most upper level BIO courses.