CHEMISTRY, B.S. - BIOCHEMISTRY M.S. 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/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 (53 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 (12 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

**Accelerated Pathway Requirements (12 Credits)**  
CHE 586 - Chemistry Research I  
CHE 587 - Chemistry Research II  
Two additional CHE course at 500-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.