CHEMISTRY, B.S. - ENVIRONMENTAL CHEMISTRY M.S. ACCELERATED PATHWAY

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall required for graduation. Overall GPA of 3.0 is required.

The department website provides an overview of the program, admission requirements (when applicable), faculty biographies, learning outcomes, and careers: https://www.southerncit.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 (50 Credits)

2.0 GPA required in the major

Chemistry Requirements (29 Credits)
CHE 120 – General Chemistry I
CHE 121 – General Chemistry II (T2LE)*
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 Connections (T3)*

Concentration in Environmental Chemistry (9 Credits)
CHE 340 - Environmental Chemistry
CHE 372 – Physical Chemistry Laboratory I
CHE 436 - Inorganic Chemistry Lab
CHE 440 - Instrumental Analysis

BS to MS Accelerated Pathway (12 Credits)
CHE 586 - Chemistry Research I
CHE 587 - Chemistry Research II
Two additional CHE courses at the 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 (20 Credits)**

MAT 150 – Calculus I (T1QR)*  
PHY 230 – Physics for Scientists and Engineers I (T2PR)*  

Select four courses from:  
BIO 202 – Ecology  
BIO 210 – Environmental Biology and Conservation  
BIO 334 – Microbial Ecology  
BIO 429 – Limnology  
BIO 430 – Marine Ecology  
ENV 200 – Systems Thinking for the Environment  
ENV 220 – Global Climate Change  
ENV 350 – Environmental/Earth Systems Inquiry  
ENV 401 – Pollution Prevention and Controls  
ENV 491 – Environmental Problem Solving  
ESC 205 – Principles of Meteorology  
ESC 220 – Physical and Chemical Oceanography  
ESC 303 – Environmental Earth Science  
ESC 457 – Hydrology  
ESC 458 – Soil Science  
MAR 140 – The World Ocean  
MAR 210 – Coastal Marine Studies  
MAR 250 – Introduction to Coastal and Marine Pollution  
MAR 340 – Coastal Processes/Environment  
MAR 460 – Field and Laboratory Techniques in Marine Studies  
MAR 491 – Environmental Problem Solving  
PCH 259 – Environmental Health  
PCH 441 – Water Supply/Waste Treatment  
PCH 446 – Environmental Hazards