CHEMISTRY, B.S. - ENVIRONMENTAL CHEMISTRY

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.southerncst.edu/academics/chemistry/programs

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. Detailed information on these requirements is published in this section of the catalog: https://catalog.southernct.edu/undergraduate/general-information/lep.html.

Writing courses are not additional course requirements, course sections that meet this requirement are designated with a ‘W’ on the class schedule. Courses in the major and/or cognate may also be used to satisfy LEP requirements where noted below (*).

MAJOR REQUIREMENTS (44 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 (15 credits)
CHE 340 - Environmental Chemistry
CHE 372 – Physical Chemistry Laboratory I
CHE 436 - Inorganic Chemistry Lab
CHE 440 - Instrumental Analysis

Select two additional CHE courses at or above the 300-level

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 Required

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 – Environmental Studies II
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