CHEMISTRY, B.S. - CONCENTRATION: M.S. ACCELERATED PATHWAY

The B.S. in Chemistry (Concentration: B.S. to M.S. Accelerated Pathway) provides high-achieving students with the opportunity to complete foundational graduate coursework during their senior year of undergraduate study in order to accelerate graduate degree completion. This competitive program allows admitted students the opportunity to complete both their bachelor's degree and the M.S., Chemistry (Accelerated) in five years at Southern Connecticut State University. This program has a separate admissions process and eligible students are encouraged to apply no later than their junior year of undergraduate study. Please consult the admission requirements in the undergraduate catalog and below for more information.

120 Overall Credits Required
Overall GPA of 3.0 is required

APPLICATION PROCESS

Undergraduate freshmen and transfer applicants will select the appropriate degree program and accelerated pathway concentration for their particular discipline when applying through the Common App. Current students who are already matriculated in a program at Southern must be accepted into the undergraduate portion of the accelerated pathway through department permission via the Selection of degree system. Undergraduate students must declare their intention to join an Accelerated Pathway Program no later than their junior year. Eligible students in the accelerated pathway program will then apply for early acceptance graduate admission no later than the spring semester of their senior year. During the application process, students will select both the graduate degree for their specified discipline and the accelerated pathway concentration. Please note that acceptance into the undergraduate Accelerated Pathway does not automatically guarantee admission to the graduate Accelerated Pathway. Students should contact their faculty advisor regularly to ensure that they are meeting all requirements for graduate admission.

ADMISSION REQUIREMENTS

New students seeking admission to Southern Connecticut State University should apply online through the Office of Undergraduate Admissions website: https://www.southernct.edu/admissions/undergraduate

Currently matriculated students must meet and maintain the following department requirements in order to be admitted to and remain in the program:

• An undergraduate GPA of 3.0.
LIBERAL EDUCATION PROGRAM AND WRITING REQUIREMENTS

Liberal Education Program

Students must complete a comprehensive three-tiered Liberal Education Program (LEP). View all requirements of the tiers on the Liberal Education Program.

While the choice of courses that fulfill the requirements is generally left up to students, courses in the major and/or cognate may also satisfy LEP requirements. These shared courses are recommended below to fulfill both areas, although the course credits are only counted once towards the 120 credits required for graduation.

Tier 1 - Quantitative Reasoning:
MAT 150 – Calculus I

Tier 2 – Natural World I: Physical Realm:
PHY 230 – Physics for Scientists and Engineers I

Tier 3 – Capstone (all three required):
CHE 301 – The Preparation of Scientific Documents for Chemistry
CHE 445 – Chemical Hazards and Laboratory Safety
CHE 496 – Chemistry Seminar

Writing Requirements (“W-Courses”)

Three W-courses are required. These may not be taken until after a student has passed ENG 112 — Writing Arguments. W-courses may count toward LEP, major, or cognate requirements, as well as free electives. Course sections that meet this requirement are designated by section numbers ending in “W”.

Transfer students who enter with 60 to 89 credits are required to pass two W-courses, while transfer students who enter with 90 credits or more must pass one W-course.

MAJOR REQUIREMENTS

47 Credits Required
GPA of 2.0 required in the major

Chemistry Requirements
29 Credits Required

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 301 - The Preparation of Scientific Documents for Chemistry
CHE 370 – Physical Chemistry I
CHE 435 - Inorganic Chemistry I
CHE 445 - Chemical Hazards and Laboratory Safety
CHE 496 - Chemistry Seminar

**BS to MS Accelerated Pathway**
18 Credits Required

*Graduate courses require a grade of 'C' or higher*

CHE 371 – Physical Chemistry II
CHE 372 – Physical Chemistry Laboratory I
CHE 373 – Physical Chemistry Laboratory II
CHE 436 — Inorganic Chemistry Lab
CHE 586 - Chemistry Research I
CHE 587 - Chemistry Research II

Select two additional graduate 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 Required

Requirements:
MAT 150 – Calculus I
MAT 151 – Calculus II
MAT 252 – Calculus III
PHY 230 – Physics for Scientists and Engineers I
PHY 231 – Physics for Scientists and Engineers II

**FREE ELECTIVES**

Remaining credits to reach Overall Credits Required (listed above).