CHEMISTRY 7-12, B.S.

This program has a separate admission process. Please consult the admission requirements for this program on the College of Education page for more information.

Overall GPA of 2.7 Required
120 Overall Credits Required

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 – American Experience (select one):
HIS 110 – United States History I
HIS 111 – United States History II

Tier 2 – Mind and Body:
SHE 203 – School Health ('C' or better)

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

Tier 2 - Social Structure, Conflict, and Consensus
EDU 200 - Teachers, Schools, and Society ('C' or better)

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”.

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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

61 Credits Required

**Chemistry Requirements**

34 Credits Required
GPA of 2.0 required in the major

Requirements:
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 372 – Physical Chemistry Laboratory I
CHE 435 — Inorganic Chemistry I
CHE 436 — Inorganic Chemistry Lab
CHE 301, CHE 445 and CHE 496 - Chemistry Connection
Select one CHE course 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.

**Education Requirements**

27 Credits Required

Requirements:
EDU 316 - Child Development and Psychology for Educators (‘C’ or better)
EDU 413 – Secondary Education (‘C’ or better)
EDU 471 - Supporting English Learners for School Success (‘C’ or better)
RDG 470 - Literacy in the content Areas (‘C’ or better)
SCE 490 – Science (Secondary School) (‘C’ or better)
SCE 494 – Student Teaching (Science)
SCE 496 – Student Teaching Seminar (Science)
SED 482 – Teaching Exceptional Students in the Secondary Education Classroom (‘C’ or better)

Non-Course Requirements:
Module 1: Behavioral Difficulties (Social and Emotional Development)
Module 2: Dyslexia

**COGNATE REQUIREMENTS**
17 Credits Required

Requirements:

EDU 200
- Teachers, Schools, and Society ('C' or better)

HIS 110
or

HIS 111
- United States History I or II

PHY 230
- Physics for Scientists and Engineers I

MAT 150
- Calculus I

SHE 203
- School Health ('C' or better)

FREE ELECTIVES

Students must take remaining credits to reach Overall Credits Required (listed above).