

**Central Connecticut State University**  
**School of Engineering, Science, and Technology**

**Degree:** Bachelor of Science  
**Program:** Chemistry - Certified Track  
**Effective Term:** Fall 2025

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

**General Education: Ways of Understanding:**

**Arts & Humanities (9 credits)**

	Credits	Grade
Literature	3	

**Social & Behavioral Sciences (12 credits)**

	Credits	Grade
History	3	

**Math & Natural Sciences (9-10 credits)**

MATH 152	X	
PHYS 125	X	
PHYS 126	X	

**General Education: Essential Skills:**

**Written & Oral Communication (6 credits)**

WRT 105 or 110	3	

**World Language (0-6 credits) or Gen Ed Free Elective (3 credits)**

World Language course numbered 112 or 118* or Gen Ed Free Elective	3	
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**Thriving in College (2-3 credits)**

CCSU 102, 103, or FYE course**	2-3	
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A maximum of 16 credits (4 courses) applied towards Ways of Understanding and Essential Skills requirements may be used to fulfill a major and/or minor requirement.

**International & Equity, Justice, & Inclusion (EJI) Requirements:**

International	3	
International	3	
Equity, Justice, & Inclusion***	3	

Coursework applied toward International & EJI requirements may be used in any other area of general education or program requirements.

**Honors Program:** HON courses can be used to fulfill certain general education requirements. Consult the Honors Program curriculum for details.

**Residency Requirements:** A minimum of 30 credits overall must be completed in residence, with at least 15 credits in the major (at least 12 of which must be at the 300 level or above) and 9 credits in a minor at Central. In residence means attending classes conducted on campus or under supervision of Central.

**Chemistry Major Requirements (45 credits)**

	Credits	Grade
CHEM 161 and 162 General Chemistry and Lab	4	
CHEM 200 and 201 Funds of Chemistry and Lab	4	
CHEM 210 and 211 Organic Chemistry I and Lab	4	
CHEM 212 and 213 Organic Chemistry II and Lab	4	
CHEM 238 Introduction to Research	1-6	
CHEM 260 Foundations of Inorganic Chemistry	3	
CHEM 316 Spectrometric Identification of Organic Compounds	3	
CHEM 332 Chemical Literature	1	
CHEM 432 Chemistry Seminar	1	
CHEM 438 Undergraduate Research	1-6	

**Concentration in Chemistry, Certified Track**

CHEM 321 Physical Chemistry of Thermodynamics & Kinetics	3	
CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics	3	
CHEM 323 Physical Chemistry Lab	1	
CHEM 354 Foundations in Biochemistry	3	
CHEM 402 Instrumental Methods in Analytical Chemistry	4	
CHEM 455 Biochemistry Lab	1	
CHEM 460 Inorganic Symmetry and Spectroscopy	3	
CHEM 462 Inorganic Chemistry Lab	1	

**Chemistry Additional Requirements (19-20 credits)**

MATH 152 Calculus I	4	
MATH 221 Calculus II	4	
PHYS 125 University Physics I	4	
PHYS 126 University Physics II	4	
CS 151 or MATH 218 or 222 or 226 or 228	3-4	

Coursework applied toward Related or Additional requirements may be used in any other area of general education or program requirements.

**Is a Minor Required with this Major?**

Yes       No

Free Electives may be used, as needed, to reach the total credits required for the degree when all other degree requirements have been met.

**Total Credits Required for Degree: 120**

\* Students with 3 years, or more, of one world language at the high school level, a passing score on a world language placement exam, or native proficiency in a language other than English will have the World Language requirement waived and can satisfy this requirement with any general education free elective course (3cr).

\*\* Transfer students with 24 or more transfer credits at the time of admission can satisfy this requirement with any general education free elective (3cr).

\*\*\* Waived for transfer students with 50 or more transfer credits at the time of admission.