

Central Connecticut State University
School of Education

Degree: Bachelor of Science (Certifiable for Secondary Education)

Program: Chemistry

Effective Term: Fall 2025

Name: _____

ID#: _____

General Education: Ways of Understanding:

Arts & Humanities (9 credits)

	Credits	Grade
Literature	3	
	3	
	3	

Social & Behavioral Sciences (12 credits)

HIST 161 or 162	X	
PSY 136	X	
EDF 215	X	
	3	

Math & Natural Sciences (9-10 credits)

MATH 152	X	
CHEM 161 & 162	X	
PHYS 121	X	

General Education: Essential Skills:

Written & Oral Communication (6 credits)

WRT 105 or WRT 110 Intro to Coll Wrt.	3	
	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*** EDSC 425	X	

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.

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

* 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.

Major Requirements (31-32 credits)

Requires grade of C- or higher, unless otherwise specified.

	Credits	Grade
CHEM 161 General Chemistry	3	
CHEM 162 General Chemistry Lab	1	
CHEM 200 Foundations Analytical Chem	3	
CHEM 201 Foundations Analytical Chem lab	1	
CHEM 210 Organic Chemistry I	3	
CHEM 211 Organic Chemistry Lab	1	
CHEM 212 Organic Chemistry II	3	
CHEM 213 Organic Chemistry II Lab	1	
CHEM 238 Introduction to Research	1	
CHEM 260 Foundations Inorganic Chemistry	3	
CHEM 316 Spectrometric Identification of Organic Compounds	3	
CHEM 332 Chemical Literature	1	
CHEM 432 Chemistry Seminar	1	
Choose1: Physical Chem Elective: CHEM 320, 321 or 322	3	
Choose 1: Chemistry Elective: CHEM 354, 402, 406 or 485	3-4	

Related Requirements (21 credits)

PHYS 121 Gen Physics I or PHYS 125 Univ. Physics I	4	
PHYS 122 Gen Physics II or PHYS 126 Univ II	4	
BIO 121 or BMS 102 & 103 or ESCI 121	4	
SCI 400 The Nature of Science and Technology	3	
SCI 414 Interdisciplinary Science, Practices, & Pedagogy	3	
MATH 152 Calculus I	4	

Additional Requirements (9 credits)

HIST 161 US HIST I or HIST 162 US HIST II	3	
PSY 136 Lifespan Development	3	
EDF 215 Education in a Multicultural Society	3	

Professional Education (27 credits)

Requires grade of C or higher

EDSC 425 Multicultural, Interdisciplinary Teaching at the Secondary Level	3	
EDSC 435 Secondary Education Student Teaching	9	
SPED 315 Intro to Educating Learners with Exceptionalities	3	
EDTE 316 Principles of Learning in Diverse Settings (Secondary)	4	
LLA 440 Literacy Instruction in the Secondary School	3	
SCI 417 Teaching of Science in the Secondary School	3	
SCI 418 Fieldwork in Secondary Science Ed	1	
SCI 419 Student Teaching Seminar	1	

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

Total Credits Required for Degree: 120