

**Central Connecticut State University
School of Education**

Degree: Bachelor of Science (Certifiable for Secondary Teaching)

Program: Biology

Effective Term: Fall 2025

Name: _____

ID#: _____

General Education:

Ways of Understanding:

Arts & Humanities (9 credits)

	Credits	Grade
200-level Literature	3	
	3	
	3	

Social & Behavioral Sciences (12 credits)

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

Math & Natural Sciences (9-11 credits)

	Credits	Grade
CHEM 161 and 162	X	
BIO 121	X	
MATH 115 & 125 or MATH 124 or MATH 152	X	

General Education: Essential Skills:

Written & Oral Communication (6 credits)

	Credits	Grade
WRT 105/105P or WRT 110	3	
	3	

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

	Credits	Grade
World Language course numbered 112 or 118* or Gen Ed Free Elective	3	

Thriving in College (2-3 credits)

	Credits	Grade
CCSU 102, 103, or FYE course**	2-3	

A max of 16 credits (4 courses) applied towards Ways of Understanding and Essential Skills requirements may be used to fulfill major and/or minor requirement.

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

	Credits	Grade
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.

Major Requirements (31-35 credits)

Requires grade C- or higher, unless otherwise specified.. A minimum of 3 credits of BIO or BMS at the 400 level

	Credits	Grade
BIO 121 General Biology I	4	
BIO 122 General Biology II	4	
BIO 200 Integrative Biology	3	
BIO 290 Biology Research Experience I	3	
BIO 390 Biology Research Experience II	1	
1 course from Animal Diversity Elective: BIO 322, 420, 421, 469	4	
1 course from Genetics/Microbiology Elective BIO 315, 402 or BMS 306	3-4	
1 course from Plant Diversity Elective: BIO 326, 327, 425 or 444	3-4	
1 course from Physiology Elective: BIO 318, 319, 331, 410, 412 or 449	3-4	
1 course from Ecology/Evolution Elective BIO 305, 434, 440, 470, 471 or 480	3-4	

Related Requirements (25-27 credits)

	Credits	Grade
CHEM 161 and 162 Gen Chem & Lab	4	
CHEM 210 and 211 Organic Chem & Lab	4	
CHEM 200 or 260 Analytical Chem OR Inorganic Chemistry	3	
PHYS 121 Gen Physic I or PHYS 125 Univ Physics	4	
SCI 400 Nature of Science & Technology	3	
SCI 414 Interdisciplinary Science, Pract, & Pedagogy	3	
MATH 115 & 125 or MATH 124 or MATH 152	4-6	

Coursework applied toward Related or Additional 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.

Additional Requirements (9 credits)

	Credits	Grade
HIST 161 or US HIST 162	3	
PSY 136 Lifespan Development	3	
EDF 215 Education in Multi Cultural Society	3	

Professional Secondary Education Requirements (27 credits)

Requires grade of C or higher

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

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

Is a Minor Required with this Major?

Yes No

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.