

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

Degree: Bachelor of Science
Program: Biomolecular Sciences
Effective Term: Fall 2025

Name: _____

ID#: _____

General Education: Ways of Understanding:

Arts & Humanities (9 credits)

	Credits	Grade
Literature	3	

Social & Behavioral Sciences (12 credits)

History	3	

Math & Natural Sciences (9-10 credits)

MATH 124 or MATH 152 or (MATH 115 and 125) or (MATH 119 and 125)	X	
PHYS 121 or PHYS 125	X	
PHYS 122 or 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.

* 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.

Biomolecular Sciences Major Requirements (35 credits)

	Credits	Grade
BMS 102 and 103 Intro to Biomolecular Sciences and Lab or BIO 121 General Bio I	4	
BMS 190 Introduction to Research	0.5	
BMS 201 Principals Cell and Molecular Biology	4	
BMS 290 Introduction to Research II	0.5	
BMS 311 Cell Biology	4	
BMS 316 Microbiology	4	
BMS 390 Independent Research in BMS	1	
BMS 491 Advanced Independent Research BMS	1-3	
BMS 306 Genetics or BMS 307 Genomics	3-4	
13 Credits in Directed Electives	13	
BMS Portfolio Requirement		

Biomolecular Sciences Additional Requirements (30 credits)

(MATH 119 and MATH 125 or MATH 152) or (MATH 115 and 125)	6	
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	
PHYS 121 General Physics I or PHYS 125 University Physics I	4	
PHYS 122 General Physics II or PHYS 126 University Physics II	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