

**Central Connecticut State University
School of Education**

Degree: Bachelor of Science (Certifiable for Secondary Education)

Program: Physics

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	

Math & Natural Sciences (9-10 credits)

MATH 152	X	
CHEM 161/162	X	
PHYS 125	X	

General Education: Essential Skills:

Written & Oral Communication (6 credits)

WRT 105 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***	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.

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

* 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 (33 credits)

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

	Credits	Grade
PHYS 125 University Physics I	4	
PHYS 126 University Physics II	4	
PHYS 220 Mechanics I	3	
PHYS 250 Intermediate Lab I	1	
PHYS 305 Foundations of Electricity & Magnetism	3	
PHYS 320 Heat and Thermodynamics	3	
PHYS 325 Optics	4	
PHYS 331 Electronics I	3	
PHYS 350 Intermediate Lab II	1	
PHYS 425 Modern Physics	3	
PHYS 450 Advanced Laboratory Techniques	1	
PHYS 470 Quantum Mechanics	3	

Related Requirements (26 credits)

Requires grade of C- or higher

CHEM 161 General Chemistry	3	
CHEM 162 General Chem Lab	1	
CHEM 260 Foundations of Inorganic Chemistry	3	
CHEM 201 Foundations of Analytical Chem Lab	1	
MATH 152 Calculus I	4	
MATH 221 Calculus II	4	
MATH 222 Calculus III	4	
SCI 414 Interdisciplinary Science, Practices, and Pedagogy	3	
SCI 400 History and Nature of Science	3	

Additional Requirements (9 credits)

HIST 161 or 162 American History I OR II	3	
PSY 136 Life-Span Development	3	
EDF 215 Education in a Multicultural Society	3	

Professional Education Core (27 credits)

Requires grade of C or higher

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

Total Credits Required for Degree: 120