

CENTRAL CONNECTICUT STATE UNIVERSITY
School of Education and Professional Studies
B.S.ED. (Grades 7-12) 120 credits
BIOLOGY

Name: _____ ID#: _____ Matriculation Semester: _____ Date: _____

GENERAL EDUCATION (44-46 credits)

Crs.	Grd.
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Some General Education courses can also fulfill Related Requirements

STUDY AREAS

Study Area I Arts & Humanities (9 credits)

ENG literature	3	
	3	
	3	

Study Area II Social Sciences (9 credits)

HIST	3	
	3	
	3	

Study Area III Behavioral Sciences (6 credits)

	3	
	3	

Study Area IV Natural Sciences (6 or 7 credits)

Course can be double-counted in major	X	X
Course can be double-counted in major	X	X

SKILL AREAS

Skill Area I Communication Skills (6 credits)

WRT 105 & 105P or WRT 110 Freshman Composition	3	
	3	

Skill Area II Mathematics Requirement (6 credits)

	3	
	3	

Skill Area III Foreign Language Proficiency Requirement (check one)

- completion of a level-three high school foreign language	
- passed a standardized foreign language exam	
- completion of 112 or 114 foreign language course	
- successful completion of an upper level foreign language course	
- demonstration of native proficiency in a language other than English	

Skill Area IV University Requirement (2 or 3 credits)

PE 144 required for students matriculating with fewer than 15 credits	2 or 3	
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ELECTIVES (if necessary to reach 120 credits)

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International Requirement	
International Requirement	
First Year Experience Requirement	
Equity, Justice, & Inclusion (EJI)	

BIOLOGY MAJOR (31-35 credits)

Crs.	Grd.
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Grade of C- or better required

BIO 121 General Biology I	4	
BIO 122 General Biology II	4	
BIO 200 Integrative Biology	4	
BIO 290 Biology Research Experience I	2	
BIO 390 Biology Research Experience II	1	
Genetics/Microbiology Elective: BIO 315 or BIO 402 or BMS 306		
	3 or 4	
Animal Diversity Elective: BIO 322 or 420 or 421 or 469		
	4	
Physiology elective: one of BIO 318 or 319 or 331 or 410 or 412 or 449 Note: BIO 413 is an optional lab		
	3 or 4	
Plant Diversity Elective: BIO 326 or 327 or 425 or 444		
	3 or 4	
Ecology/Evolution Elective: BIO 405 or 434 or 440 or 470 or 471 or 480		
	3 or 4	
Note: At least one course in BIO or BMS must be at the 400-level.		

RELATED REQUIREMENTS (35-37 credits)

Grade of C- or better required

SCIENCE RELATED REQUIREMENTS (22 credits)

CHEM 161 General Chemistry	3	
CHEM 162 General Chemistry Lab	1	
CHEM 210 Organic Chemistry I - Foundations	3	
CHEM 211 Organic Chemistry I Lab - Foundations	1	
CHEM 200 Foundations of Analytical Chemistry OR CHEM 260 Foundations of Inorganic Chemistry	3	
PHYS 121 Gen. Physics I or PHYS 125 Univ. Physics I	4	
PHYS 122 Gen. Physics II or PHYS 126 Univ. Physics	4	
SCI 420 The Nature of Science and Technology	3	

ADDITIONAL REQUIREMENTS (13-15 credits)

Required for the Program & can also fulfill General Education

HIST 161 or HIST 162 (ST II)	3	
PSY 136 Life Span Development (ST III)	3	
EDF 215 Education in a Multicultural Society (ST III)	3	
MATH 124 or 115 and 125 or 152 (SK II)	4 or 6	

PROFESSIONAL EDUCATION (30 credits)

All courses require admission to the Professional Program and a Grade of C or better

SPED 315 Intro. to Educating Learners with Exceptionalities	3	
EDTE 316 Principles of Learning in Diverse Settings (7-12)	4	
SCI 414 Interdisciplinary Science, Practices & Pedagogy	3	
LLA 440 Literacy in the Secondary School	3	
EDSC 425 Multicultural, Interdisciplinary Teaching (7-12)	3	
SCI 417 Teaching of Science in the Secondary School	3	
SCI 418 Field Work in Secondary Science Education	1	
SCI 419 Student Teaching Seminar	1	
EDSC 435 Secondary Education Student Teaching	9	