

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

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

GENERAL EDUCATION (44-46 credits)	Crs.	Grd.
<i>Some General Education courses can also fulfill Related Requirements</i>		

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	

ELECTIVES (if necessary to reach 120 credits)		

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

PHYSICS MAJOR (33 credits)	Crs.	Grd.
<i>Grade of C- or better required</i>		

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 Fund of Electricity & Magnetism	3	
PHYS 320 Heat & 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	1	
PHYS 470 Quantum Mechanics I	3	

RELATED REQUIREMENTS (32 credits)		
<i>Grade of C- or better required</i>		

SCIENCE RELATED REQUIREMENTS (11 credits)		
CHEM 161 General Chemistry	3	
CHEM 162 General Chemistry Lab	1	
CHEM 201 Foundations of Analytical Chemistry Lab	1	
CHEM 260 Foundations of Inorganic Chemistry	3	
SCI 420 The Nature of Science and Technology	3	

ADDITIONAL REQUIREMENTS (21 credits)		
<i>Required for the Program & some can also fulfill General Education</i>		

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 152 Calculus I (SK II)	4	
MATH 221 Calculus II (SK II)	4	
MATH 222 Calculus III	4	

PROFESSIONAL EDUCATION (30 credits)		
<i>All courses require admission to the Professional Program and a Grade of C or better</i>		

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	