

CENTRAL CONNECTICUT STATE UNIVERSITY
School of Education and Professional Studies
B.S.ED. (Grades 7 - 12) 130 Credits
PHYSICS

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

GENERAL EDUCATION (44-46 credits)		Crs.	Grd.
STUDY AREAS			
Study Area I Arts & Humanities (9 credits)			
ENG literature	3		
	3		
	3		
Study Area II Social Sciences (9 credits)			
HIST 161 or HIST 162 (Grade of C-or better required)	3		
	3		
	3		
Study Area III Behavioral Sciences (6 credits)			
PSY 236 Life Span Development (Grade of C- or better required)	3		
	3		
Study Area IV Natural Sciences (6 or 7 credits)			
PHYS 125 (double-counted in major)	X	X	
PHYS 126 (double-counted in major)	X	X	

SKILL AREAS		Crs.	Grd.
Skill Area I Communication Skills (6 credits)			
ENG 105 or ENG 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 130 credits)			

International Requirement	
International Requirement	
First Year Experience Requirement	

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		

MATH & SCIENCE RELATED REQUIREMENTS (35 credits)		Crs.	Grd.
<i>Grade of C- or better required</i>			
BIO 121 General Biology I	4		
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		
GSCI 121 The Dynamic Earth	3		
GSCI 122 The Dynamic Earth Lab	1		
AST 209 Stellar and Galactic Astronomy	4		
MATH 152 Calculus I (<i>can also fulfill General Education SK II</i>)	4		
MATH 221 Calculus II (<i>can also fulfill General Education SK II</i>)	4		
MATH 222 Calculus III	4		
SCI 420 History of Science	3		

PROFESSIONAL EDUCATION (30 credits)		Crs.	Grd.
<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		
EDF 415 Educational Foundations	3		
EDSC 425 Multicultural, Interdisciplinary Teaching (7-12)	3		
RDG 440 Literacy in the Secondary School	3		
SCI 417 Teaching of Science in the Secondary School	4		
SCI 419 Student Teaching Seminar	1		
EDSC 435 Secondary Education Student Teaching	9		