

CENTRAL CONNECTICUT STATE UNIVERSITY

School of Engineering Science and Technology

Physics Major B.S. (non-teaching, Biology Concentration)

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

<u>GENERAL EDUCATION (46 - 47 credits)</u>		Crs.	Grd.	<u>MAJOR</u>		Crs.	Grd.		
<u>STUDY AREAS</u>				<u>PHYSICS: = (37 credits)</u>					
Study Area I Arts & Humanities (9 credits)				PHYS 125 University Physics I					
ENG literature	3		PHYS 126 University Physics II				4		
	3		PHYS 220 Mechanics I				4		
	3		PHYS 250 Intermediate Lab I				3		
Study Area II Social Sciences (9 credits)				PHYS 250 Intermediate Lab I				1	
History	3		PHYS 305 Foundations of Electricity and Magnetism				3		
	3		PHYS 320 Heat and Thermodynamics				3		
	3		PHYS 325 Optics				4		
Study Area III Behavioral Sciences (6 credits)				PHYS 331 Electronics I				3	
	3		PHYS 350 Intermediate Lab II				1		
	3		PHYS 425 Modern Physics				3		
Study Area IV Natural Sciences (6 or 7credits)				PHYS 450 Advanced Laboratory				1	
(double-counted in major)	X	X	PHYS 460 Seminar in Physics				1		
(double-counted in major)	X	X	PHYS 470 Quantum Mechanics I				3		
			PHYS 471 Quantum Mechanics II				3		
<u>SKILL AREAS</u>				<u>Related Requirements (20 Credits)</u>					
Skill Area I Communication Skills (6 credits)				CHEM 161 General Chemistry I				3	
WRT 105/105P/110 Writing	3		CHEM 162 General Chemistry 1 Lab				1		
	3		MATH 222 Calculus III				4		
Skill Area II Mathematics Requirement (6 credits)				CHEM 260 Fndtns of Inorg. Chem				3	
MATH 152 Caclulus I	4		CHEM 201 Fndtns of Inorg.Chem. Lab				1		
MATH 221 Calculus II	4		CHEM 210 Foundations of Organic Chem.				3		
Skill Area III Foreign Language Proficiency Req. (check one)				CHEM 211 Foundations of Organic Chem. Lab				1	
- 3 sequential years of one foreign language at the high school level			CHEM 212 Organic Synthesis				3		
- passed a standardized foreign language exam			CHEM 213 Organic Synthesis Lab				1		
- 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)				<u>Biology Concentration(24 Credits)</u>					
PE 144 (required if matriculated with less than 15 credits)	2 or 3		BIO 121 General Biology I				4		
International Requirement met			BIO 122 General Biology II				4		
International Requirement met			BIO 200 Integrative biology				4		
First Year Experience Requirement met			BIO 331 Neurobiology				4		
			BIO elective 200+				4		
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GEN. ED. Total	34-35	0	FINAL TOTAL				121-122	0	

