

CENTRAL CONNECTICUT STATE UNIVERSITY

School of Engineering Science and Technology

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

Name:	ID#:	Matriculation Semester:	Date:		
GENERAL EDUCATION (46 - 47 credits)		Crs. Grd.	MAJOR		
STUDY AREAS		PHYSICS: = (37 credits)			
Study Area I Arts & Humanities (9 credits)					
ENG literature	3		PHYS 125 University Physics I	4	
	3		PHYS 126 University Physics II	4	
	3		PHYS 220 Mechanics I	3	
Study Area II Social Sciences (9 credits)					
History	3		PHYS 250 Intermediate Lab I	1	
	3		PHYS 305 Foundations of Electricity and Magnetism	3	
	3		PHYS 320 Heat and Thermodynamics	3	
Study Area III Behavioral Sciences (6 credits)					
	3		PHYS 325 Optics	4	
	3		PHYS 331 Electronics I	3	
Study Area IV Natural Sciences (6 or 7credits)					
(double-counted in major)	X	X	PHYS 350 Intermediate Lab II	1	
(double-counted in major)	X	X	PHYS 425 Modern Physics	3	
			PHYS 450 Advanced Laboratory	1	
			PHYS 460 Seminar in Physics	1	
			PHYS 470 Quantum Mechanics I	3	
			PHYS 471 Quantum Mechanics II	3	
SKILL AREAS		Related Requirements (20 Credits)			
Skill Area I Communication Skills (6 credits)					
WRT 105/105P/110 Writing	3		CHEM 161 General Chemistry I	3	
	3		CHEM 162 General Chemistry I Lab	1	
Skill Area II Mathematics Requirement (6 credits)					
MATH 152 Caclulus I	4		MATH 222 Calculus III	4	
MATH 221 Calculus II	4		CHEM 260 Fndtns of Inorg. Chem	3	
Skill Area III Foreign Language Proficiency Req. (check one)					
- 3 sequential years of one foreign language at the high school level			CHEM 201 Fndtns of Inorg.Chem. Lab	1	
- passed a standardized foreign language exam			CHEM 210 Foundations of Organic Chem.	3	
- completion of 112 or 114 foreign language course			CHEM 211 Foundations of Organic Chem. Lab	1	
- successful completion of an upper level foreign language course			CHEM 212 Organic Synthesis	3	
- demonstration of native proficiency in a language other than English			CHEM 213 Organic Synthesis Lab	1	
Skill Area IV University Requirement (2 or 3 credits)		BMS Concentration(20.5 Credits)			
PE 144 (required if matriculated with less than 15 credits)	2 or 3		BMS 102 Intro to Biomoleculer sciences	3	
International Requirement	met		BMS 103 Intro to Biomoleculer sciences Lab	1	
International Requirement	met		BMS 190 Intro to research I	0.5	
First Year Experience Requirement	met		BMS 201 Principals of cell and moleculer biology	4	
GEN. ED. Total	40-41	0	BMS 311 Cell Biology	4	
			BMS 307 Genomics	4	
			BMS Electives 200+	8	
			FINAL TOTAL	120.5	0

