

CENTRAL CONNECTICUT STATE UNIVERSITY
School of Engineering, Science and Technology
Physics Major B.S. Engineering Physics Concentration

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

GENERAL EDUCATION (46 - 47 credits)

Crs.	Grd.
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STUDY AREAS

Study Area I Arts & Humanities (9 credits)

ENG literature	3	
	3	
	3	

Study Area II Social Sciences (9 credits)

	3	
	3	
	3	

Study Area III Behavioral Sciences (6 credits)

	3	
	3	

Study Area IV Natural Sciences (6 or 7credits)

(double-counted in major)	X	X
(double-counted in major)	X	X

SKILL AREAS

Skill Area I Communication Skills (6 credits)

ENG 110 Freshman Composition	3	
	3	

Skill Area II Mathematics Requirement (6 credits)

MATH 152 Caclulus I	4	
MATH 221 Calculus II	4	

Skill Area III Foreign Language Proficiency Req. (check one)

- 3 sequential years of one foreign language at the high school level	
- 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 244 (required if matriculated with less than 15 credits)	2 or 3	
International Requirement met		
International Requirement met		
First Year Experience Requirement met		

MAJOR

PHYSICS: = (39 credits)

Crs.	Grd.
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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 Foundations of Electricity and Magnetism	3	
PHYS 320 Heat and 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 452 Indept Study: Senior Capstone Design Project	3	
PHYS 470 Quantum Mechanics I	3	
PHYS 471 Quantum Mechanics II	3	

Related Requirements (16 Credits)

CHEM 161 General Chemistry I	3	
CHEM 162 General Chemistry 1 Lab	1	
MATH 222 Calculus III	4	
MATH 226 Linear Algebra & Prb/Engineers	4	
MATH 355 Differential Equations	4	

Engineering Courses (21 credits)

ENGR 251 Engineering Mechanics - Statics	3	
ME 258 Engineering Thermodynamics	3	
ME 354 Fluid Mechanics	3	
ENGR 357 Mechanics of Materials	3	
Engineering Electives (ME and/or CE 300 level or above)	9	

FINAL TOTAL	117-118	