

Physics Education (CPHB)

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 Core History II	3
Core History I		3 Humanities Core	3
Core Fine Arts		3 ENGL 1120 English Composition II	3
MATH 1610 Calculus I <i>or</i> 1617 Honors Calculus I		4 EDUC 1010 Orientation to Teacher Education ³	0
Core Social Science		3 MATH 1620 Calculus II <i>or</i> 1627 Honors Calculus II	4
		PHYS 1607 Honors Physics I <i>or</i> 1600 Engineering Physics I	4
	16		17

Sophomore

Fall	Hours	Spring	Hours
CHEM 1030 Fundamentals Chemistry I		3 CHEM 1040 Fundamental Chemistry II	3
CHEM 1031 Fundamental Chemistry I Laboratory		1 CHEM 1041 Fundamental Chemistry II Laboratory	1
Core Literature		3 MATH 2650 Linear Differential Equations	3
MATH 2630 Calculus III <i>or</i> 2637 Honors Calculus III		4 BIOL 1020 Principles of Biology	3
PHYS 1617 Honors Physics II <i>or</i> 1610 Engineering Physics II		4 BIOL 1021 Principles of Biology Laboratory	1
		PHYS 2300 Physics Laboratory Skills	3
		PHYS 2200 Introductory Quantum Physics and Relativity	3
	15		17

Junior

Fall	Hours	Spring	Hours
COMM 1000 Public Speaking		3 Core Social Science	3
RSED 3000 Diversity and Exceptionality of Learners ³		3 Physics Elective (3000-5000 level)	3
PHYS 3100 Intermediate Electricity and Magnetism		3 CTSE 4090 Curriculum and Teaching I: Science ^{1,3}	4
FOUN 3000 Diversity of Learners and Settings ³		3 CTRD 5000 Language and Literacy in the Content Areas ³	3
PHYS 2100 Intermediate Mechanics		3 PHYS 3200 Statistical Thermodynamics	3
		PHYS 4100 Fundamentals of Quantum Mechanics	3
	15		19

Senior

Fall	Hours	Spring	Hours
FOUN 3120 Adolescent Development, Learning, Motivation and Assessment II ^{1,3}		3 CTSE 5240 Clinical Residency Seminar in Science Teaching ^{1,4}	1
PHYS 4200 Fundamental Experiments in Physics		3 CTSE 4920 Clinical Residency ²	11
CTSE 5000 Technology in Science Education ³		2 UNIV 4AA0 Achieve the Creed	0

CTSE 5100 Curriculum and Teaching II: Science^{1,3}	4	
Physics Elective (3000-5000 level)	6	
	18	12
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Total Hours: 129		

¹ Prerequisite: Admission to Teacher Education.

² Prerequisite: Admission to Clinical Residency (application for Clinical Residency is one year in advance).

³ Prerequisite for Admission to Clinical Residency.

⁴ Co-requisite with Clinical Residency.

Physics Elective: See advisor for approved course listing.