

**Sample Program--- B.S. in Physics with
Concentration in Physics Education with Secondary Teaching Certification**

FRESHMAN	Units		Units		Units
Fall		Winter		Spring	
Mathematics 2B	4	Mathematics 2D	4	Mathematics 2E	4
Physics 7C, 7LC	5	Physics 7D, 7LD	5	Physics 7E	4
Gen. Ed.	4	Gen. Ed.	4	Gen. Ed.	4
Physics 99	1	Phys Sci 5: Intro to Sci/Math Teaching	3	Gen. Ed.	4
	14		16		16
SOPHOMORE					
Fall		Winter		Spring	
Mathematics 3A	4	Mathematics 3D	4	Physics 50	4
Physics 60	4	Physics 61A	4	Physics 61B	4
Physics 52A	2	Physics 52B	2	Physics 52C	2
Phys Sci 105: Middle School Sci/Math Teaching	3	Physics 193: Research Methods	4	History 60/LPS 60: Making of Modern Science **	4
	13		14		14
JUNIOR					
Fall		Winter		Spring	
Physics 111A	4	Physics 111B	4	Physics 53 (or other programming course)	4
Physics 112A	4	Physics 112B	4	Physics 113A	4
Educ 55: Know & Learn Sci/Math	5	Educ 143AW: Classroom Interactions I	4	Educ 148: Complex Pedagogical Design	6
General Science	4	General Science	4		
General Science	4				
	21		16		14
SENIOR					
Fall		Winter		Spring	
Physics 115A	4	Gen. Ed.	4	Physics 121W	4
Educ 143BW: Classroom Interactions II (I- UDW/VII)	4	Educ 109: Read & Writing in Sec. Classroom	4	Gen. Ed.	4
General Science	4	Educ 158: Student Teaching in Math & Science	6	Education 158: Student Teaching in Math & Science	6
	12		14		14

Departmental Requirements:

Physics 7C-D-E with laboratory courses 7LC-LD; Mathematics 2A-B, 2D-E, 3A, 3D; Physics 50; Physics 60; Physics 61A-B*; Physics 52A-B-C; Physics 53 (or another programming course); Physics 111A-B, 112A-B, 113A, 115A, 121W, and 125A; Physics 194; and five additional coherently related four-unit courses. (The five coherently related courses are normally satisfied by concentrations, specializations, and tracks.)

Concentration in Physics Education with Secondary Teaching Certification:

Requirements: Physics 193; Logic and Philosophy of Science 60; Education 55; Physical Sciences 5 and 105; Education 143A-B, 109, 148, and two quarters of 158.

**Also offered during Winter quarter