MAJOR IN NATURAL SCIENCES, PHYSICS EDUCATION CONCENTRATION

All Physics Education majors must maintain a 2.75 GPA and receive a C or better in all content and education courses for licensure. All course work must be completed prior to Student Teaching (AUCC 4A/4B/4C requirement). Admission into the teacher licensure program is required for phase II education courses and above.

Major Completion Map

Distinctive Requirements for Degree Program:

Freshman						
Semester 1		Critical	Recommended	AUCC	Credits	
CHEM 111	General Chemistry I (GT-SC2)		X	3A	4	
CHEM 112	General Chemistry Lab I (GT-SC1)		X	3A	1	
CO 150	College Composition (GT-CO2)	X		1A	3	
MATH 160	Calculus for Physical Scientists I (GT-MA1)		X	1B	4	
Diversity, Equity,	and Inclusion (http://catalog.colostate.edu/general-catalog/	X		1C	3	
-	re-curriculum/aucc/#diversity-equity-inclusion)					
	H 118 may be necessary for some students to fulfill pre-	Χ				
calculus require						
	Total Credits				15	
Semester 2		Critical	Recommended	AUCC	Credits	
CHEM 113	General Chemistry II		X		3	
CHEM 114	General Chemistry Lab II		Х		1	
CS 150B	Culture and Coding: Python (GT-AH3)	Х		3B	3	
MATH 161	Calculus for Physical Scientists II (GT-MA1)		X	1B	4	
PH 141	Physics for Scientists and Engineers I (GT-SC1)		Х	3A	5	
	M 112 must be completed by the end of Semester 2.	Х				
MATH 124, MAT fulfill pre-calculu	H 125, MATH 126 may be necessary for some students to is requirements.	Х				
	Total Credits				16	
Sophomore						
Semester 3		Critical	Recommended	AUCC	Credits	
EDUC 275	Schooling in the United States (GT-SS3)		X	3C	3	
LIFE 102	Attributes of Living Systems (GT-SC1)		X	3A	4	
PH 142	Physics for Scientists and Engineers II (GT-SC1)		X	3A	5	
Select one group from the following:						
Group A:						
AA 100	Introduction to Astronomy (GT-SC2)			3A		
AA 101	Astronomy Laboratory (GT-SC1)			3A		
Group B:						
GEOL 120	Exploring Earth - Physical Geology (GT-SC2)			3A		
GEOL 121	Introductory Geology Laboratory (GT-SC1)			3A		
MATH 160, PH 1	41 must be completed by the end of Semester 3.	X				
	Total Credits				16	
Semester 4		Critical	Recommended	AUCC	Credits	
EDUC 340	Literacy and the Learner	X			3	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)		Χ	3A	4	
MATH 261	Calculus for Physical Scientists III		Χ		4	
PH 314	Introduction to Modern Physics	Χ		4B	4	
CO 150, MATH 1	61 and PH 314 must be completed by the end of Semester 4.	Χ				
	Total Credits				15	

Junior						
Semester 5		Critical	Recommended	AUCC	Credits	
EDUC 350	Instruction I-Individualization/Management	Х			3	
EDUC 386	Practicum-Instruction I	Х			1	
EDUC 461A	Secondary Science and Technology Education I	Х			3	
PH 245	Introduction to Electronics		X		3	
STAT 301	Introduction to Applied Statistical Methods				3	
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)				2	3	
	Total Credits				16	
Semester 6		Critical	Recommended	AUCC	Credits	
EDUC 461B	Secondary Science and Technology Education II	Χ			3	
PH 315	Modern Physics Laboratory	Χ			2	
PH 361	Physical Thermodynamics	Χ			3	
Science/Math Electives						
PH 315 & PH 36	1 must be taken by Semester 6.	Χ				
	Total Credits				15	
Senior						
Semester 7		Critical	Recommended	AUCC	Credits	
EDUC 450	Instruction II-Standards and Assessment	X			4	
EDUC 486E	Practicum: Instruction II	X			1	
PH 353	Optics and Waves				4	
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-				3B	3	
university-core-curriculum/aucc/#arts-humanities)						
	ectives (http://catalog.colostate.edu/general-catalog/all- curriculum/aucc/#historical-perspectives)			3D	3	
	Total Credits				15	
Semester 8		Critical	Recommended	AUCC	Credits	
EDUC 485B	Student Teaching: Secondary	Χ		4A,4C	11	
EDUC 493A	Seminar: Professional Relations	Χ		4C	1	
	courses for the 8th semester are the remaining courses in the	. X				
entire program of study.						
	Total Credits				12	
	Program Total Credits:				120	