

SPHY Bachelor of Science in Science Education (9-12) ~ Physics Concentration

INDIGENOUS CULTURES and COMMUNITIES (ICC) Students entering the University in Fall 2022 or later, as a requirement for graduation, shall complete the ICC Requirement. Students may satisfy this requirement by completing two 3-credit hour approved ICC designated courses OR one 3-credit hour approved ICC designated course and an ICC designated and department approved co-curricular learning experience. Transfer students with over 60 hours will be required to complete one course or the approved departmental experiential learning experience. Designated ICC courses and experiences can satisfy other graduation and general education graduation requirements and need not increase the total number of hours required for graduation.						
The Writing Intensive Program The goal of the program is to enhance the ability of students to write effectively and appropriately in both general writing and professional writing in their disciplines. The program consists of Writing Enriched courses and Writing in the Discipline courses. Students must complete nine semester credit hours of Writing Enriched and Writing in the Discipline courses. One course must be a Writing in the Discipline course.						
Freshman Seminar/General Education		45(33)	Twelve hours of natural sciences and mathematics may count toward general education requirements			
	UNV 1000	1	Freshman Seminar	<i>Students transferring in more than 15 credit hours are exempt.</i>		
Communication Skills		6 hours total				
	ENG 1050	3	Composition I			
	ENG 1060	3	Composition II			
Arts & Humanities		12 hours total	<i>Choose one course from each of the 4 areas</i>			
	Fine Arts	3	ART 1450, 2050, 2080, 2090, MUS 1020, 1040, 2940, 2980, THE 2500			
	Literature	3	ENG 2010,2020,2030,2050,2060, 2080, 2090, 2100, 2180, 2190, 2230, 2240, 2410, 2470, 2480, AIS 2200			
	History	3	HIS 1010,1020,1030,1100,1110,1140,1150,AIS 1100, AIS1110			
	Philosophy/Religion	3	PHI 1000, 1010, 2040, 2070,REL 1080, 1300			
Social Sciences		9 hours total	<i>Choose one course from each of 3 out of these 5 areas</i> Economics ECN 1000, 2020, 2030, 2410 Geography GGY 1010, 1020, 2000, 2060, Political Science PLS 1000, 1010, Psychology PSY 1010, Sociology SOC 1020, 1050, 2090			
		3				
		3				
		3				
General Education Elective		3 hours	Any additional course from the Arts & Humanities Division or Social Science Division as listed in the General Education Requirements section of the current <i>UNCP Academic Catalog</i> .			
		3				
Physical Education		2 hours total	PED 1010, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1410, 1450, 1460, 1770, 1790, 1800 (MSC), 1810(THE), 1820(THE), 1900,1910, 1950			
	PED 1	1				
	PED 1	1				
Professional Education Requirements*		12 hours total				
	EDN 2100	3	Introduction to Education (Required for admission to the Teacher Education Program. Prerequisites: 30 semesters hours and a GPA of 2.7 or better)			
	SED 3310	3	Introduction to the Exceptional Child			
	EDN 3140	3	Aspects of Human Development and Educational Psychology for Grades 6-12			
	EDN 3130	3	Content Area Literacy (Must be admitted to the Teacher Education Program to take this class. A GPA of 2.7 or better and passing Praxis scores are required to be admitted to the Teacher Education Program)			
Essential Standards *		57 hours total	Physics (9-12) Concentration			
	PHY 2000	3	University Physics I	PHY 2560	4	Modern Physics
	PHY 2060	1	University Physics I Lab	PHY 3000	3	Classical Mechanics
	PHY 2010	3	University Physics II	PHY 3260	3	Heat and Temperature
	PHY 2070	1	University Physics II Lab	PHY 4200	3	Advanced Laboratory I
	PHY 2180	3	Optics	BIO 1000	3	Principles of Biology
	MAT 2210	4	Calculus I	BIO 1000L	1	Principles of Biology Lab
	MAT 2220	4	Calculus II	BIO 1010 or BIO 1020	4	General Botany (must sign up for both lab and lecture at the same time) or General Zoology (must sign up for both lab and lecture at the same time)
	GLY 1150	3	Earth Science	GLY1150L	1	Earth Science Lab
	CHM 1300	3	General Chemistry I	CHM 1100	1	General Chemistry I Lab
	CHM 1310	3	General Chemistry II	CHM1110	1	General Chemistry II Lab
	PHS 1560	3	Astronomy	PHS 1570	1	Astronomy Lab
	An hour of science electives	1				
Content Pedagogy*		18 hours total				
	SCE 3000	1	Early Experiences for Prospective Science Teacher			
	SCE 3010	2	Early Laboratory Experiences for Prospective Science Teacher			
	SCE 4000	3	Teaching Science in the Secondary School			
	SCE 4490***	9	Internship in Science in Middle/Secondary Schools			
	SCE 4750***	3	Professional Seminar in Middle/Secondary Science			

*Science Education Majors must earn a "C-" or better in all courses listed under the indicated sections. A grade of "C" or better must be earned in repeated courses.

***The only courses Taken in the Professional Semester that are taken in the final semester.