

S BIO Bachelor of Science in Science Education (9-12) Biology Concentration

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 Choose one course from each of the 4 areas				
	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 Choose one course from each of 3 out of these 5 areas 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 Choose from 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 Biology (9-12) Concentration				
	BIO 1000	3	Principles of Biology			
	BIO 1000L	1	Principles of Biology Lab			
	BIO 1010	4	General Botany and General Botany Lab (must sign up for both at same time)			
	BIO 1020	4	General Zoology and General Zoology Lab (must sign up for both at same time)			
	BIO 3040	4	Principles of Ecology and Principles of Ecology Lab (must sign up for both at same time)			
	BIO 3180	4	Principles of Genetics and Principles of Genetics Lab (must sign up for both at same time)			
	BIO 3710	4	Cell Biology and Cell Biology Lab (must sign up for both at same time)			
	BIO 4220	3	Evolution			
Select one (minimum of 3 hours): Research Strategies BIO 3510; Biometrics BIO 4310; Research in Biology BIO 4990; or BIOS 3xxx Special Topics in Biology						
	BIO 3510	3-4				
	BIO 4310					
	BIO 4990					
	BIOS 3xxx					
	MAT 1070 or	3-4	College Algebra or			
	MAT 109		Pre-calculus			
	CHM 1300	3	General Chemistry I	PHY 1560	3	College Physics II
	CHM 1100	1	General Chemistry I Lab	PHY 1570	1	College Physics II Lab
	CHM 1310	3	General Chemistry II	GLY 1150	3	Earth Science
	CHM1110	1	General Chemistry II Lab	GLY1150L	1	Earth Science Lab
	PHY 1500	3	College Physics I	GLY 1250	3	Earth History
	PHY 1560	1	College Physics I Lab	GLY 1250L	1	Earth History Lab
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 of 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.

***These are the only courses that can be taken during the Professional Semester. The Professional Semester is the final semester.