

**SCHM Bachelor of Science in Science Education (9-12) Chemistry Concentration**

<b>Freshman Seminar/General Education</b>		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>			
<b>Communication Skills</b>		<b>6 hours total</b>					
	ENG 1050	3	Composition I				
	ENG 1060	3	Composition II				
<b>Arts &amp; Humanities</b>		<b>12 hours total</b> <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				
<b>Social Sciences</b>		<b>9 hours total</b> <i>Choose one course from each of 3 out of these 5 areas</i> <b>Economics</b> ECN 1000, 2020, 2030, 2410 <b>Geography</b> GGY 1010, 1020, 2000, 2060, <b>Political Science</b> PLS 1000, 1010, <b>Psychology</b> PSY 1010, <b>Sociology</b> SOC 1020, 1050, 2090					
		3					
		3					
		3					
<b>General Education Elective</b>		3	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					
<b>Physical Education</b>		<b>2 hours total</b> 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					
<b>Professional Education Requirements*</b>		<b>12 hours total</b>					
	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)				
<b>Essential Standards *</b>		<b>57 hours total</b> <b>Chemistry (9-12) Concentration</b>					
	CHM 1300	3	General Chemistry I		CHM 2270	4	Analytical Chemistry
	CHM 1100	1	General Chemistry I Lab		CHM 2500	4	Organic Chemistry I
	CHM 1310	3	General Chemistry II		CHM 2510	4	Organic Chemistry II
	CHM1110	1	General Chemistry II Lab		CHM 3110	3	Biochemistry
	CHM 2260	4	Elementary Inorganic Chemistry				
	CHM 3980	2	Scientific Literature				
	MAT 2210	4	Calculus I				
	BIO 1000	3	Principles of Biology				
	BIO 1000L	1	Principles of Biology Lab				
	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		PHY 1500	3	College Physics I
	GLY1150L	1	Earth Science Lab		PHY 1560	1	College Physics I Lab
	GLY 1250	3	Earth History		PHY 1510	3	College Physics II
	GLY 1250L	1	Earth History Lab		PHY 1570	1	College Physics II Lab
<b>Content Pedagogy*</b>		<b>18 hours total</b>					
	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.

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