

Science Education, Chemistry (9-12) Concentration 2025-2026

Freshman Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	UNV 1000	Freshman Seminar	1		ENG 1060	Composition II	3
	ENG 1050	Composition 1	3		General Education (ICC) ¹	History	3
	MAT 1090	Precalculus	4		CHM 1300	General Chemistry I	3
	BIO 1000	Principles of Biology	3		CHM 1100	General Chemistry Laboratory I	1
	BIOL 1000	Laboratory Investigation and Experiences in General Biology	1		MAT 2210	Calculus I	4
	General Education	Social Science	3		General Education	Physical Education	1
	General Education	Physical Education	1				
Total Credits			16		Total Credits		14

Sophomore Year							
<ul style="list-style-type: none">Keep your grades high. You need a 2.7 GPA for admission to the Teacher Education ProgramStudy for the Praxis CORE if you do not have the SAT or ACT scores for exemption from taking the Praxis Core.Plan to take Praxis CORE during the Fall of your Sophomore yearPlan to apply to Admission to Teacher Education Program Spring of Sophomore year<ul style="list-style-type: none">You must have a 2.7 GPA or higherYou must have successful completion of EDN 2100You must have less than 9 hours of General Education courses remainingYou must have passing Praxis Core, SAT or ACT scores							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	EDN 2100	Introduction to Education	3		EDN 3150	Developmental Perspectives of Educational Psychology (K-12)	3
	General Education (WE) ²	Literature	3		General Education (ICC) ¹	Social Science	3
	General Education	Fine Art	3				
	CHM 1310	General Chemistry II	3		GLY 1250 <i>Spring only</i>	Earth History	3
	CHM 1110	General Chemistry Laboratory II	1		GLYL 1250 <i>Spring only</i>	Earth Science Lab	1
	GLY 1150	Earth Science	3		General Education	Philosophy and Religion	3
	GLYL 1150	Earth Science Lab	1		SED 3310 (WE) ²	Intro to Exceptional Children	3
Total Credits			17		Total Credits		16

¹ **Indigenous Cultures and Communities (ICC):** Students entering the university in Fall 2023 or later shall complete the ICC requirement for graduation. Students may satisfy this requirement by completing two 3-credit hour ICC-designated courses. Students who transfer over 60 or more hours shall complete one 3-credit hour ICC course. Designated ICC courses can satisfy other graduation requirements such as gen. eds or major requirements.

Junior Year							
• Apply for the Professional Semester and Graduation during the Spring of Junior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 1010 or BIO 1020	General Botany or General Zoology	4		PHY 1510	College Physics II	3
	General Education	Elective-Arts and Humanities or Social Sciences	3		PHY 1570	College Physics II Lab	1
	PHY 1500	College Physics I	3		SCE 3010	Early Laboratory Experiences for Prospective Science Teachers	2
	PHY 1560	College Physics I Lab	1		CHM 2500	Organic Chemistry I	3
	CHM 2260	Elementary Inorganic Chemistry	4		CHM 2520	Organic Chemistry I Lab	1
	SCE 3000	Early Experiences for Prospective Science Teachers	1		CHM 2270	Analytical Chemistry	4
					**EDN 3130	Content Area Literacy	3
Total Credits			16	Total Credits			17

Senior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	CHM 3980 (WD) ²	Scientific Literature	2		SCE 4490	Internship in Science in Middle/ Secondary Schools	9
	SCE 4000	Teaching Science in the Secondary School	3		SCE 4750 (WD) ²	Professional Seminar in Science in Middle/ Secondary Science	3
	CHM 2510	Organic Chemistry II	3				
	CHM 2540	Organic Chemistry II Lab	1				
	CHM 3110	Biochemistry	3				
	General Education	Social Science	3				
Total Credits			15	Total Credits			12

² **Writing Intensive Program:** Students must complete a combined total of 9 credit hours of Writing Enriched (WE) and Writing in the Discipline (WD) coursework. One course must be a WD course. This degree includes 8 hours toward your requirement (SED 3310 WE, SCE 4750 WD, CHM 3980), however, it is 1 credit short of meeting the 9 required hours. An additional WE course should be taken through a gen. ed. course. Double majors need only fulfill the Writing Intensive Program requirement once. NOTE: Successful completion (grade of “C” or better) of ENG 1050 is a prerequisite for all WE or WD courses.

Additional Notes

- **ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED**
- ***Note:** C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major
- ****Must** be admitted to the Teacher Education Program to take EDN 3130. A GPA of 2.7 or better and passing praxis scores are required to be admitted to the Teacher Education Program)
- Twelve hours of natural sciences and mathematics within this degree count toward gen. ed. requirements. Students should only take those natural sciences and mathematics courses required by the degree program.
- QPA Requirements for Baccalaureate Graduation: “Have a minimum overall cumulative quality point average of 2.0 and have a minimum cumulative quality point average of 2.0 in all work attempted at the University of North Carolina at Pembroke; Have a minimum overall cumulative quality point average of 2.0 in the major field of study”