

Science Education, Earth Science (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 I	3		General Education	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		General Education	Physical Education	1
	General Education	Social Science-PSY1010	3		General Education	Fine Art	3
	General Education	Physical Education	1		General Education (ICC) ¹	Social Science	3
Total Credits			16		Total Credits		17

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
	GLY 1000 or GLY 1150	Physical Geology or Earth Science	3		EDN 3150	Developmental Perspectives of Educational Psychology (K-12)	3
	GLYL 1000 or GLYL 1150	Physical Geology Lab or Earth Science Lab	1		GLY 1250	Earth History	3
	EDN 2100	Introduction to Education	3		GLYL 1250	Earth History Lab	1
	General Education (WE) ²	Literature	3		General Education	Philosophy and Religion	3
	General Education (ICC) ¹	Social Science	3		SED 3310 (WE)	Introduction to Exceptional Children	3
	CHM 1310	General Chemistry II	3		PHS 1560	Astronomy	3
	CHM 1110	General Chemistry Laboratory II	1				
Total Credits			17				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		University Wide Elective ³		3
	**EDN 3130	Content Area Literacy	3		GLY 2460	Weather and Climate	3
	SCE 3000	Early Experiences for Prospective Science Teachers	1		GLY 2620	Environmental Geology	3
Total Credits			15	Total Credits			15

Senior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	SCE 4000	Teaching Science in the Secondary School	3		SCE 4490	Internship in Science in Middle/ Secondary Schools	9
	GLY 3250	Paleontology	3		SCE 4750 (WD)	Professional Seminar in Science in Middle/ Secondary Schools	3
	GLY 2260	Oceanography	3				
	University Wide Elective ³		3				
	University Wide Elective ³		2				
Total Credits			14	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 required courses that cover your needs for this requirement (SED 3310 WE and SCE 4750 WD). 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.

³ **University wide Electives:** University wide electives can be any course in any department at the university. These are required to reach the 120 hours needed for graduation.

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)
- All students should review the Geology/Geography Course Offerings in the Academic Catalog to see availability.
- 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”