

## Science Education, Middle Grades Science (6-9) 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		EDN 2100	Introduction to Education	3
	MAT 1070	College Algebra	3		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	3		General Education (ICC) <sup>1</sup>	Fine Art	3
	General Education	Social Science	3				
Total Credits			17		Total Credits		14

Sophomore Year							
<ul style="list-style-type: none"><li>Keep your grades high. You need a 2.7 GPA for admission to the Teacher Education Program</li><li>Study for the Praxis CORE if you do not have the SAT or ACT scores for exemption from taking the Praxis Core.</li><li>Plan to take Praxis CORE during the Fall of your Sophomore year</li><li>Plan to apply to Admission to Teacher Education Program Spring of Sophomore year<ul style="list-style-type: none"><li>You must have a 2.7 GPA or higher</li><li>You must have successful completion of EDN 2100</li><li>You must have less than 9 hours of General Education courses remaining</li><li>You must have passing Praxis Core, SAT or ACT scores</li></ul></li></ul>							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO 1030	Basic Human Biology	3		EDN 3150	Developmental Perspectives of Educational Psychology (Grades K-12)	3
	General Education	Social Science	3		MAT 2100	Introduction to Statistics	3
	CHM 1310	General Chemistry II	3		GLY 1150	Earth Science	3
	CHM 1110	General Chemistry Laboratory II	1		GLYL 1150	Earth Science Lab	1
	General Education	Physical Education	1		General Education (ICC) <sup>1</sup>	Philosophy and Religion	3
	General Education (WE) <sup>2</sup>	Literature	3		SED 3310 (WE) <sup>2</sup>	Introduction to Exceptional Children	3
Total Credits			14		Total Credits		16

<sup>1</sup> **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						
<ul style="list-style-type: none"> <li>Apply for the Professional Semester and Graduation during the Spring of Junior Year</li> </ul>						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
BIO 3040	Principles of Ecology	4		GLY 1250 (Spring only)	Earth History	3
PHS 1560	Astronomy	3		GLYL 1250	Earth History Lab	1
PHY 1500	College Physics I	3		PHY 1510	College Physics II	3
PHY 1560	College Physics I Lab	1		PHY 1570	College Physics II Lab	1
**EDN 3130	Content Area Literacy	3		GLY 2460	Weather and Climate	3
SCE 3000	Early Experiences for Prospective Science Teachers	1		SCE 3010	Early Laboratory Experiences for Prospective Science Teachers	2
				General Education	Elective- Arts and Humanities or Social Sciences	3
Total Credits		15		Total Credits		16

Senior Year						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
BIO 1010	Botany	4		SCE 4490	Internship in Science in Middle/ Secondary Schools	9
SCE 3500	The Teaching of Science in the Middle Grades (6-9)	3		SCE 4750 (WD) <sup>2</sup>	Professional Seminar in Science in Middle/ Secondary Schools	3
General Education	History	3				
ENV 1100	Environmental Science	3				
GLY 3250	Paleontology	3				
Total Credits		16		Total Credits		12

<sup>2</sup> **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 2 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.

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