

# Science Education, Physics (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	Social Science	3
	MAT 1090 <sup>3</sup>	Precalculus	4		MAT 2210	Calculus I	4
	CHM 1300	General Chemistry I	3		CHM 1310	General Chemistry II	3
	CHM 1100	General Chemistry Laboratory I	1		CHM 1110	General Chemistry Laboratory II	1
					General Education (ICC) <sup>1</sup>	Fine Art	3
	General Education	Social Science	3				
	General Education	Physical Education	1				
Total Credits			16		Total Credits		17

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
	EDN 2100	Introduction to Education	3		EDN 3150	Developmental Perspectives of Educational Psychology (K-12)	3
	General Education (ICC) <sup>1</sup>	History	3		PHY 2010	University Physics II	3
	MAT 2220	Calculus II	4		PHY 2070	University Physics II Lab	1
	PHY 2000	University Physics I	3		SED 3310	Introduction to Exceptional Children	3
	PHY 2060	University Physics I Lab	1		PHS 1560	Astronomy	3
	General Education	Literature	3		PHS 1570	Astronomy Lab	1
					General Education	Physical Education	1
Total Credits			17	Total Credits			15

<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						
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
General Education	Elective- Arts and Humanities or Social Sciences	3		GLY 1150	Earth Science	3
BIO 1000	Principles of Biology	3		GLYL 1150	Earth Science Lab	1
BIOL 1000	Laboratory Investigation and Experiences in General Biology	1		SCE 3010	Early Laboratory Experiences for Prospective Science Teachers	2
PHY 2560 (WE) <sup>2</sup>	Modern Physics	4		General Education	Social Science	3
PHY 3000	Classical Mechanics	3		**EDN 3130	Content Area Literacy	3
SCE 3000	Early Experiences for Prospective Science Teachers	1		PHY 2180	Optics	3
				Science Elective <sup>4</sup>		1
<b>Total Credits</b>		16		<b>Total Credits</b>		16

Senior Year						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
PHY 3260	Heat and Temperature	3		SCE 4490	Internship in Science in Middle/ Secondary Schools	9
SCE 4000	Teaching Science in the Secondary School	3		SCE 4750 (WD) <sup>2</sup>	Professional Seminar in Science in Middle/ Secondary Science	3
PHY 4200 (WD) <sup>2</sup>	Advanced Laboratory	3				
General Education	Philosophy and Religion	3				
BIO 1010 or BIO 1020	General Botany or General Zoology	4				
<b>Total Credits</b>		16		<b>Total Credits</b>		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 required courses that cover your needs for this requirement (SED 3310 WE, SCE 4750 WD, PHY 4200 WD). You will not need to take additional Writing Intensive courses. 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.

<sup>3</sup> **Mathematics Requirements:** MAT 2210 and 2220 are required for this degree. MAT 1090 is a prerequisite for MAT 2210. Students with high math placement test scores may not need to take this course.

<sup>4</sup> **Science Elective:** Minimum 1 hour of science elective can be selected from BIO, PHY, or CHM. BIO 4950 is a 1-hour seminar course offered every spring that could fulfill this category.

#### 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”