

Science Education, Biology (9-12) Concentration 2024-2025

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	History	3
MAT 1070 or MAT 1090	College Algebra or Prealgebra	3 or 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	3		General Education	Fine Art	3
General Education	Physical Education	1		General Education	Social Science	3
Total Credits		15 - 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 Program • Study 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 year • Plan 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 higher ○ You must have successful completion of EDN 2100 ○ You must have less than 9 hours of General Education courses remaining ○ You must have passing Praxis Core, SAT or ACT scores 						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
GLY 1150	Earth Science	3		EDN 3140	Aspects of Human Development and Educational Psy (6-12)	3
GLYL 1150	Earth Science Lab	1		BIO 1020	General Zoology	4
EDN 2100	Introduction to Education	3		GLY 1250	Earth History	3
General Education	Literature	3		GLYL 1250	Earth History Lab	1
General Education	Social Science	3		General Education	Philosophy and Religion	3
CHM 1310	General Chemistry II	3		SED 3310	Introduction to Exceptional Children	3
CHM 1110	General Chemistry Laboratory II	1				
Total Credits		17		Total Credits		17

*****ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED*****

*C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major

Twelve hours of natural sciences and mathematics within this degree count toward general education requirements. For this reason, it is important that students only take those natural sciences and mathematics course 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"

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	General Botany	4		PHY 1510	College Physics II	3
General Education	Elective- Non Math or Science	3		PHY 1570	College Physics II Lab	1
PHY 1500	College Physics I	3		BIO 3040	Principles of Ecology	4
PHY 1560	College Physics I Lab	1		BIO 2180	Principles of Genetics	4
*EDN 3130	Content Area Literacy	3		SCE 3010	Early Laboratory Experiences for Prospective Science Teachers	2
SCE 3000	Early Experiences for Prospective Science Teachers	1				
Total Credits		15		Total Credits		14

Senior Year						
Fall				Spring		
Course Number	Course Title	Credits		Course Number	Course Title	Credits
BIO 3710	Cell Biology	4		SCE 4490	Internship in Science in Middle/ Secondary Schools	9
SCE 4000	Teaching Science in the Secondary School	3		SCE 4750	Professional Seminar in Science in Middle/ Secondary Schools	3
BIO 4310 or BIO 4990 or BIOS 3XXX	Biometrics or Research in Biology or Special Topics in Biology	3-4				
BIO 4220	Evolution	3				
Total Credits		13-14		Total Credits		12

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