Freshman Year 2024-2025									
	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	CHM 1300	General Chemistry	3				
BIO 1000* (C or higher required)	Principles of Biology	3	CHM 1100	General Chemistry Laboratory I	1				
BIOL 1000	Laboratory Investigations and Experiences in General Biology	1	MAT 1070 or MAT 1090	College Algebra or Precalculus	3 or 4				
General Education	Social Science	3	General Education	Elective	3				
University Wide Elective ³		3	University Wide Elective ³		3				
General Education	Physical Education	1							
otal Credits		15	Total Credits		16-17				

B.S in Biology: Biotechnology Emphasis (BBTE) 2024-2025

Sophomore Year 2025-2026								
Fall				Spring				
Course Number	Course Title	Credits		Course Number	Course Title	Credits		
BIO 1010 or BIO 1020	General Botany or General Zoology	4		MAT 2100	Introduction to Statistics	3		
СНМ 1310	General Chemistry II	3		BIO 1010 or BIO 1020	General Botany or General Zoology	4		
CHM 1110	General Chemistry Laboratory II	1		Biotech Emphasis Elective ²		3-4		
BTEC 3220 (Fall Odd years only)	Biotechnology I	4		General Education	Social Science	3		
General Education	Literature	3		University Wide Elective ³		3		
Total Credits		15		Total Credits		16-17		

ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED

¹C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major.
²Biotech Emphasis Electives (4 courses required, 12-16 hrs): BIO 3750, 3810, 4130*, BTEC 3510*, 4300*, BTES 4xxx, CHM 2270, CHM 2500 & 2520, CHM 3110 & 3120, PHY 1500 & 1560, PHY 1510 & 1570.
*if not taken in junior year as required BTEC elective option
³Optional: We recommend that students consolidate their University Electives for a Minor in Bus. Adm.
(18 hrs) ACC 1020, BLAW 2150, MGT 3060, MKT 3120, FIN 2400, ECN 1000 or 2020 or 2030

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"

Updated 3/2024 Biology Department

Junior Year 2026-2027								
Fall				Spring				
Course Number	Course Title	Credits		Course Number	Course Title	Credits		
MAT 2150 or MAT 2210	Calculus with applications or Calculus I	4		BIO 2180	Principles of Genetics	4		
BIO 3040	Principles of Ecology	4		MAT 2220	Calculus II	4		
Biotech Emphasis Elective ²		3-4		BIO 3150	Microbiology	4		
General Education	Fine Arts	3		Required BTEC elective 3510 or 4300 (<i>spring only</i>) or BIO 4130 (<i>summer only</i>)		3-4		
General Education	Physical Education	1						
Total Credits		16	Total Credits			15-16		

	Senior Year 2027-2028								
	Fall				Spring				
	Course Number	Course Title	Credits		Course Number	Course Title	Credits		
	BIO 3710 (WE)	Cell Biology	4		BTEC 4900 Taken in last summer	Internship	3		
	BIO 4700 (WD)	Reading and Writing in the Natural Sciences	3		Biotech Emphasis Elective ²		3-4		
	Biotech Emphasis Elective ²		3-4		University Wide Elective ³		3		
	General Education	Philosophy and Religion	3		General Education	History	3		
	University Wide Elective ³		3		General Education	Social Science	3		
Tot	Total Credits			T	otal Credits	15-16			

ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED

¹C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major.
²Biotech Emphasis Electives (4 courses required, 12-16 hrs): BIO 3750, 3810, 4130*, BTEC 3510*, 4300*, BTES 4xxx, CHM 2270, CHM 2500 & 2520, CHM 3110 & 3120, PHY 1500 & 1560, PHY 1510 & 1570.
*if not taken in junior year as required BTEC elective option
³Optional: We recommend that students consolidate their University Electives for a Minor in Bus. Adm.
(18 hrs) ACC 1020, BLAW 2150, MGT 3060, MKT 3120, FIN 2400, ECN 1000 or 2020 or 2030

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" Updated 3/2024 Biology Department