

B.S. Environmental Science (ENVB) 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	Physical Education	1
	MAT 1070	College Algebra	3		MAT 2100	Introduction to Statistics	3
	BIO 1000*	Principles of Biology	3		General Education	History	3
	General Education	Fine Art	3		General Education (ICC) ¹	Social Science	3
	General Education	Social Science	3		General Education	Elective	3
Total Credits			16		Total Credits		16

Sophomore Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	CHM 1300	General Chemistry I	3		BIO 3040	Principles of Ecology	4
	CHM 1100	General Chemistry I Laboratory	1		ENV 2300 (spring only)	Field Zoology	4
	ENV 2200 (fall only)	Field Botany	4		CHM 1310	General Chemistry II Lecture	3
	General Education	Physical Education	1		CHM 1110	General Chemistry II Laboratory	1
	General Education (WE) ²	Literature	3		General Education	Philosophy or Religion	3
	General Education	Social Science	3				
Total Credits			15		Total Credits		15

Junior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	ENV 3100 (fall only)	Freshwater Ecosystems	4		BIO/ENV Elective ³		3-4
	BIO/ENV Elective ³		3-4		University Wide Elective		3
	Earth Science Elective ⁴		3-4		Earth Science Elective ⁴		3
	University Wide Elective ⁵		3		BIO 4700 (WD) ²	Reading and Writing in the Sciences	3
	University Wide Elective ⁵		3		University Wide Elective ⁵		3
Total Credits			16-17	Total Credits			16-17

Senior Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	BIO/ENV Elective ³		3-4		University Wide Electives		3
	BIO 4320 (WE) ^{1,2} (fall only)	Conservation Biology	4		BIO 3420 (spring only)	Pollution Ecology	3
	ENV 4900	Internship	3		ENV 3200 (spring odd only)	Soils and Hydrology	4
	University Wide Elective ⁵		3		Earth Science Elective ⁴		3
					University Wide Elective ⁵		3
Total Credits			13-14	Total Credits			15

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 major electives and required courses. One required course in this degree is designated as ICC (BIO 4320).

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 (BIO 4700). This degree also includes 1 required course that counts as WE: BIO 4320. The remaining WE coursework can come from any discipline. Double majors need only fulfill the Writing Intensive Program requirement once. It is recommended that you “double dip” by taking a General Education Requirement or major elective that is also designated as WE. NOTE: Successful completion (grade of “C” or better) of ENG 1050 is a prerequisite for all WE or WD courses.

³ **Biology/Environmental Science Elective (9-12 hrs):** All students should review the Biology Course Catalog to see availability.

Choose 3 from:

ENV 2400. Environmental Microbiology (4 credits) (infrequently offered)
ENV 4100. Environmental Laws and Regulations (3 credits) (infrequently offered)
BIO 2050. Animal Behavior (3 credits, WE) (Even Springs)
BIO 2080. Introductory Mycology (4 credits) (Odd Falls)
BIO 2420. Beekeeping (3 credits) (Every Spring)
BIO 2500. Ornithology (4 credits) (Every Spring)
BIO 3010. Entomology (4 credits, ICC) (Every Fall)
BIO 3015. Medicinal and Poisonous Plants (3 credits, ICC) (Every Spring)
BIO 3400. Plant Systematics (4 credits) (Odd Springs)
BIO 4100. Marine Biology (3 credits) (Odd Springs)
BIO 4220. Evolution (3 credits) (Every Fall)
BIO 4310. Biometrics (4 credits) (Odd Falls)

Sustainable Agriculture Elective track (these 3 courses replace BIO/ENV electives):

ENV 2450. Principles of Sustainable Agriculture (4 credits) (Odd Springs)
ENV 3250. Plant Cropping and Weed Management (4 credits) (Even Springs)
ENV 4200. Pest Management (3 credits, ICC) (Even Falls)

⁴ **Earth Science Electives (9-10 hrs):**

All students should review the Geology/Geography Course Catalog to see availability.

Choose 3 from:

GLY 1150. Earth Science (3 credits) (Every Semester)
GLY 2260. Oceanography (3 credits) (Even Falls)
GLY 2460. Weather & Climate (3 credits) (Every Semester)
GLY 2620. Environmental Geology (3 credits) (Every Spring)
GGY 2500. Introduction to Cartography (3 credits) (Every Fall)
GGY 2700. Geographic Information Science (4 credits) (Odd Springs)
GGY 4040. Remote Sensing (3 credits) (Even Springs)

⁵ **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. These can also be used to form a minor.

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
- 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”