

ENVIRONMENTAL SCIENCE MAJOR

Four-year plan for students starting in even years

This is a suggested program guide. It is not to be interpreted as a contract. Changes may occur.

Please see your program advisor before you register for courses.

Updated 1/24

YEAR	FALL		SPRING	
First Year	BENV100 Becoming a Scholar	3	Reading the Bible Competency	3
	Writing Well Competency	3	Speaking and Listening Competency	3
(even, odd)	CEM 121 General Inorganic Chemistry 1	5	CEM 122 General Inorganic Chemistry 2	5
	MAT 135 Calculus 1	5	BIO 205 Invertebrate Zoology	4
	(or MAT 114 Pre-calculus – if needed	4)		
			Total	15
	Total	15-16		
Second	Creative Expression Competency	3	Living Well Competency	2-3
Year	BIO 330 General Ecology (odd falls only)*	4	BIO 135 Botany (even springs only)*	4
,	CEM 221 Organic Chemistry 1	4	PHY 212 Physics for Science/ Engineering 2	5
(odd, even)	PHY 211 Physics for Science/Engineering 1	5	(Electives	3-5)
	Total	16	Total	14-17
Third Year	BENV200 Learning in Community	5	BENV300 Cross-cultural Experience	3
Tilliu Teal	Understanding Self and Society Competency	3	NSC 220 Hydrology (odd springs only)*	4
(even, odd)	NSC 210 Geology and Soils (even falls only)*		BUS 284 General Statistics	3
(CVCII, Odd)	NSC 107 Global Climate Change	3	(Electives	5-6)
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	Total	15	Total	15-16
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Fourth	BENV400 Enduring Values Capstone	2 3	Religious Understanding Competency	3
Year	Exploring the Past Competency	ა 3-5	SOC 430 Environmental Justice (even springs only)	* 3 3-5
(add aves)	BIO/CEM elective (take one semester)**		BIO/CEM elective (take one semester)**	ა-၁ ***3
(odd, even)	(Electives	2-8)	BIO 385 Biology Internship (total over degree) (Electives	0-11)
	Total	12-17	(LIGOLIVES	0-11)
	Total	12-11	Total	12-17

^{*}Alternate year courses. Even/odd designation refers to calendar year (NOT to the year in which the academic year began).

Boldface print denotes major course requirement.

Total hours needed to complete graduation requirements are 124. (This includes 2 hours of Arts and Lecture credit.) Total hours of major coursework are 64-66.

^{**}One semester of BIO/CEM elective is required.

^{***}Internship credit can be taken in 1-, 2-, or 3-hour pieces in any fall, spring, or summer semesters. Completion of the degree requires a total of 3 credit hours. Internship options include working at the Bluffton University Nature Preserve, local & county parks, conservation organizations and companies, state and federal organizations, or undergraduate research experience.



BIO/CEM elective options:

- BIO 230 Human Anatomy & Physiology 1 (fall only; pre-req: CEM 105, CEM 121, or PHY 105)
- BIO 231 Human Anatomy & Physiology 2 (spring only; pre-req: BIO 230)
- BIO 335 Cell Biology (fall only; pre-req: CEM 121)
- BIO 301 Microbiology (spring only; pre-req: CEM 121)
- BIO 303 Genetics (even fall only; pre-reg: CEM 121)
- CEM 222 Organic Chemistry 2 (spring only; pre-req: CEM 221)
- CEM 230 Analytical Chemistry (spring only; pre-req: CEM 122)
- CEM 341 Biochemistry (odd springs only; pre-req: CEM 221 and one of BIO 230, BIO 335, or CEM 222)
- CEM 326 Physical Chemistry 1 (even fall only; pre-req: CEM 122, PHY 211, MAT 135, MAT 136; recommended: MAT 225 and MAT 350)

Note: The Scientific Inquiry and Critical Analysis competencies are met by the major. In general, competencies may be taken in any order. The exceptions are that Writing Well should be taken in the first year and Reading the Bible must be completed prior to taking the Religious Understanding competency. The timing of the remaining competencies is flexible and may be adjusted to accommodate desired elective courses.