

ENVIRONMENTAL SCIENCE MAJOR

Sample 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 5/24

YEAR	FALL		SPRING	
First Year (even, odd)	BENV100 Becoming a Scholar Writing Well Competency CEM 121 General Inorganic Chemistry 1 MAT 135 Calculus 1 (or MAT 114 Pre-calculus – if needed	3 3 5 5 4)	Reading the Bible Competency Speaking and Listening Competency CEM 122 General Inorganic Chemistry 2 BIO 205 Invertebrate Zoology	3 3 5 4
	Total	15-16	Total	15
Second Year (odd, even)	Creative Expression Competency BIO 330 General Ecology (odd falls only)* CEM 221 Organic Chemistry 1 PHY 211 Physics for Science/Engineering 1	3 4 4 5	Living Well Competency BIO 135 Botany (even springs only)* PHY 212 Physics for Science/ Engineering 2 (Electives	2-3 4 5 3-5)
	Total	16	Total	14-17
Third Year (even, odd)	BENV200 Learning in Community Understanding Self and Society Competency NSC 210 Geology and Soils (even falls only)* NSC 107 Global Climate Change	5 3 4 3	BENV300 Cross-cultural Experience NSC 220 Hydrology (odd springs only)* BUS 284 General Statistics (Electives	3 4 3 3-7)
	Total	15	Total	13-17
Fourth Year (odd, even)	BENV400 Enduring Values Capstone Exploring the Past Competency BIO/CEM elective (take one semester)** (Electives	2 3 3-5 2-9)	Religious Understanding Competency SOC 430 Environmental Justice (even springs only) BIO/CEM elective (take one semester)** BIO 385 Biology Internship (total over degree)*** (Electives	3 3-5 3-5)
	Total	12-17	Total	12-17

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

**One semester of a 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 internship credit hours. Internship options include off-campus undergraduate research experiences; working at the Bluffton University Nature Preserve; or working with national, state, or local parks or conservation organizations.

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.



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 301 Microbiology (spring only; pre-req: CEM 121)
- BIO 303 Genetics (even falls only; pre-req: CEM 121)
- BIO 335 Cell Biology (fall only; pre-req: CEM 121)
- CEM 222 Organic Chemistry 2 (spring only; pre-req: CEM 221)
- CEM 230 Analytical Chemistry (spring only; pre-req: CEM 122)
- CEM 326 Physical Chemistry 1 (even falls only; pre-req: CEM 122, PHY 211, MAT 135, and MAT 136; recommended: MAT 225 and MAT 350)
- CEM 341 Biochemistry (odd springs only; pre-req: CEM 221 and one of BIO230, BIO 335, or CEM 222)

Note: This plan assumes that 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.