



ENVIRONMENTAL SCIENCE MAJOR

Four-year plan for students starting in odd 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 Aug 2025

YEAR	FALL	SPRING
First Year (odd, even)	BENV100 Becoming a Scholar 3 Writing Well Competency 3 CEM 121 General Inorganic Chemistry 1 5 MAT 135 Calculus 1 (or MAT 114 Precalculus) 4-5 Total 15-16	Reading the Bible Competency 3 Speaking and Listening Competency 3 CEM 122 General Inorganic Chemistry 2 5 BIO 205 Invertebrate Zoology 4 Total 15
Second Year (even, odd)	Creative Expression Competency 3 ENV 210 Geology and Soils (even falls only)* 4 PHY 211 Physics 1 (or PHY 105 Physical World) 4-5 (Electives) 3-4 Total 15-16	Living Well Competency 2-3 BIO 135 Botany (odd springs only)* 4 BUS/PSY/SOC 284 General Statistics 3 BENV200 Learning in Community 5 Total 14-15
Third Year (odd, even)	Understanding Self and Society Competency 3 BIO 330 General Ecology (offered odd falls only)* 4 ENV 107 Global Climate Change (or HON 230 History of Climate Change Science) 3 (Electives) 5-6 Total 15-16	BENV300 Cross-cultural Experience 3 ENV 220 Hydrology (even springs only)* 4 SOC 430 Environmental Justice (even springs only)* 3 (Electives) 6-7 Total 16-17
Fourth Year (even, odd)	BENV400 Enduring Values Capstone 2 Exploring the Past Competency 3 Natural Science elective (see list)** 3-5 (Electives) 6-9 Total 14-17	Religious Understanding Competency 3 ENV 385 Env Sci Internship (total over degree)*** 3 (Electives) 9-11 Total 15-17

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

**One semester of Natural Science 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, or state and federal organizations, or Undergraduate research experience

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 53-57.

Natural Science elective options:

- BIO 230 Human Anatomy & Physiology 1 (fall only; pre-req: 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-req: CEM 121)
- CEM 221 Organic Chemistry 1 (fall only; pre-req: CEM 122)
- 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, BIO 235)
- CEM 326 Physical Chemistry 1 (even fall only; pre-req: CEM 122, PHY 211, MAT 135, MAT 136; recommended: MAT 225 and MAT 350)
- PHY 212 Physics for Science and Engineering 2 (spring only; pre-req: PHY 211)

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.