

## BIOLOGY 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 6/24

YEAR	FALL	SPRING
First Year	BENV100 Becoming a Scholar 3 Writing Well Competency 3 <b>CEM 121 General Inorganic Chemistry 1</b> 5 <b>MAT 135 Calculus 1</b> 5 (or MAT 114 Pre-calculus – if needed 4) Total 15-16	Reading the Bible Competency 3 Speaking and Listening Competency 3 <b>CEM 122 General Inorganic Chemistry 2</b> 5 <b>BIO 205 Invertebrate Zoology</b> 4 Total 15
Second Year	Creative Expression Competency 3 <b>BIO 230 Human Anatomy &amp; Physiology 1</b> 4 <b>CEM 221 Organic Chemistry 1</b> 4 <b>PHY 211 Physics for Science/Engineering 1</b> 5 Total 16	Living Well Competency 2-3 <b>BIO 231 Human Anatomy &amp; Physiology 2</b> 4 <b>PHY 212 Physics for Science/ Engineering 2</b> 5 <b>BIO 135 Botany (typically offered odd years only)*</b> 4 Total 15-16
Third Year	BENV200 Learning in Community 5 Understanding Self and Society Competency 3 <b>BIO 330 General Ecology (offered odd years only)*</b> 4 <b>BIO 335 Cell Biology</b> 4 Total 16	BENV300 Cross-cultural Experience 3 <b>BIO 301 Microbiology</b> 4 <b>BIO 315 Immunology (offered even years only)*</b> 3 (Electives 3-7) Total 13-17
Fourth Year	BENV400 Enduring Values Capstone 2 Exploring the Past Competency 3 <b>BIO 303 Genetics (offered even years only)*</b> 4 (Electives 3-8) Total 12-17	Religious Understanding Competency 3 (Electives 11-14) Total 14-17

\*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. Students anticipating graduate study should take Calculus 2 and Organic Chemistry 2. A statistics class is also highly recommended. In addition, CEM 341 Biochemistry (offered spring of odd years) is encouraged. Other suggested elective courses include NTR225 Fundamentals of Nutrition, NTR340 Human Pathophysiology, or upper-level chemistry courses.

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

**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.