

BIOLOGY MAJOR WITH PRE-MEDICINE 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 8/26

YEAR	FALL	SPRING
First Year (even, odd)	BENV100 Becoming a Scholar 3	Reading the Bible Competency 3
	Writing Well Competency 3	CEM 122 General Inorganic Chemistry 2 5
	CEM 121 General Inorganic Chemistry 1 5	BIO 205 Invertebrate Zoology 4
	MAT 135 Calculus 1 5 (or MAT 114 Pre-calculus – if needed 4)	MAT 136 Calculus 2 5
	Total 15-16	Total 17
Second Year (odd, even)	Speaking and Listening Competency 3	Creative Expression Competency 3
	BIO 230 Human Anatomy & Physiology 1 4	BIO 231 Human Anatomy & Physiology 2 4
	CEM 221 Organic Chemistry 1 4	CEM 222 Organic Chemistry 2 4
	PHY 211 Physics for Science/Engineering 1 5	PHY 212 Physics for Science/ Engineering 2 5
	Total 16	Total 16
Third Year (even, odd)	Understanding Self and Society Competency 3	BENV300 Cross-cultural Experience 3
	BIO 303 Genetics (offered even falls only)* 4	BIO 301 Microbiology 4
	BIO 335 Cell Biology 4	BIO 135 Botany (offered odd springs only)* 4
	CEM 326 Physical Chemistry 1 (offered even falls only)* 5	CEM 341 Biochemistry (offered odd springs only)* 3
	Total 16	Total 14
Fourth Year (odd, even)	BENV200 Learning in Community 5	BENV400 Enduring Values Capstone 2
	Living Well Competency 2-3	Religious Understanding Competency 3
	Exploring the Past Competency 3	BIO 315 Immunology (offered even springs only)* 3
	BIO 330 General Ecology (offered odd falls only)* 4	CEM 230 Analytical Chemistry 4
	Electives	Electives
	Total 14-17	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. A statistics class is also highly recommended. Other suggested elective courses include NTR 225 Fundamentals of Nutrition and NTR 340 Human Pathophysiology.

Boldface and italics print denotes the five extra courses added to the biology major for the pre-medicine major.

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.

Introduction to Psychology is often a prerequisite course required for further study in the medical field and should be taken for the Understanding Self and Society competency. **Introduction to Sociology** is also recommended.