

BACHELOR OF SCIENCE IN BIOLOGY

This Bachelor of Science in Biology program has been established to provide students with a strong foundation in life sciences. It is the intent of this degree program to prepare students for careers in a variety of scientific settings of governmental or private institutions. In addition, this program will prepare interested students for continued academic study in medical and graduate school environments.

Graduates acquiring this biology degree will be able to:

- Develop and maintain an active, growing faith in the God of the Bible through a Christian worldview of biology,
- Demonstrate an understanding of key concepts of critical thinking and problem solving as they apply to the study of the complexities of life on Earth,
- Apply the scientific method to arrive at scientifically sound conclusions based upon the research of others found in the creation and evolutionary scientific literature,
- Design and execute experiments, acquire and analyze data, and present scientifically defensible conclusions by using standard biology laboratory techniques and instrumentation, and
- Articulate ethical standards based on a biblical foundation.

GENERAL EDUCATION REQUIREMENTS:

Behavioral & Social Sciences (9 hours)

HIST 1323 or 1423 American History	3 hrs
POLS 1523 American Fed Government	3 hrs
PSYC 1123 General Psychology	3 hrs

Christian Studies Core (15 hours)

ENGL 1513 Lit Study English Bible I	3 hrs
ENGL 1613 Lit Study English Bible II	3 hrs
PHIL 1123 Christian Apologetics	3 hrs
THEO 1213 FWB History and Doctrine	3 hrs
Christian Studies Elective (Choose one)	3 hrs
Bible Elective (BIBL courses)	
PHIL 1113 Christian Ethics	
Theology Elective (THEO Courses)	

Communication (9 hours)

COMM 1113 Fundamentals of Speech	3 hrs
ENGL 1113 English Composition I	3 hrs*
ENGL 1213 English Composition II	3 hrs*

Humanities (3 hours)

Choose one course from the following:	3 hrs
DRAM 1113 Introduction to Theatre	
ENGL 2113 or 2213 American Literature	
ENGL 3513 or 3523 World Literature	
HIST 2133 Western Civilization	
HUMN 1113 Humanities	
MUSI 3233 Music Literature and History	
PHIL 2203 Introduction to Philosophy	

Liberal Arts (3 hours)

HPES -- Physical Education Activity Classes (2)	2 hrs
IDIS 1001 Student Success Skills	1 hr*

Mathematics & Natural Sciences (15 hours)

MATH 1513 College Algebra	3 hrs*
MATH 1714 Calculus I	4 hrs*
Natural Sciences (Must be from different disciplines)	
BIOL 1114 General Biology I	4 hrs*
CHEM 1114 General Chemistry I	4 hrs*

General Education Requirement is 54 hours.

General Education Competency (Required):

Computer Science Competency (See further details p. 40)

BIOLOGY CORE REQUIREMENTS:

BIOL 1124 General Biology II	4 hrs*
BIOL 2544 Human Anatomy	4 hrs*
BIOL 2644 Human Physiology	4 hrs*
BIOL 3033 Origins	3 hrs*
BIOL 3204 Cell Biology	4 hrs*
BIOL 4333 Genetics	3 hrs*
CHEM 1124 General Chemistry II	4 hrs*
CHEM 3214 Organic Chemistry I	4 hrs*
CHEM 3224 Organic Chemistry II	4 hrs*
NATS 1314 Intro to Physics I	4 hrs*
NATS 1334 Intro to Physics II	4 hrs*

BIOLOGY ELECTIVES:

Choose 18 hours from the following:

BIOL 3244 Microbiology	4 hrs*
BIOL 3313 Immunology	3 hrs*
BIOL 3343 Pharmacology	3 hrs*
BIOL 3514 Botany	4 hrs*
BIOL 3544 General Zoology	4 hrs*
BIOL 3574 Ecology	4 hrs*
BIOL 4114 Molecular Biology	4 hrs*
BIOL 4203 Neuroscience	3 hrs*
CHEM 4414 Biochemistry	4 hrs*
CHEM 4713 Intro to Forensic Toxicology	3 hrs*
NATS 3802 Natural Science Seminar	2 hrs*
NATS 4123 History of Science	3 hrs*
NATS 4513 Ethics in Science	3 hrs*
Other BIOL, CHEM, or NATS elective(s)	4 hrs*

RESEARCH:

STAT 3003 Statistics	3 hrs*
ENGL 3113 Writing and Research	3 hrs*

Biology Requirement is 66 hours.

GRADUATION REQUIREMENT:

BIOL 4883 Biology Capstone	3 hrs*
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Minimum of 123 hours (45 of which must be upper level) is required for Bachelor of Science in Biology.

A minimum grade of 'C' is required for all courses pertaining to the major. These courses are indicated with an asterisk. A minimum cumulative GPA of 2.0 is required.