

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.
- Articulate ethical standards based on a biblical foundation.

UNIVERSITY CORE REQUIREMENTS:

Christian Studies Core (15 hours)

Christian Studies

BIBL 2313	Life of Christ	3 hrs
THEO 1223	Christian Doctrine	3 hrs

Humanities

BIBL 1113	Survey of the Bible	3 hrs
PHIL 1123	Christian Apologetics	3 hrs

Social Science

SOCI 2403	Marriage and Family	3 hrs
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English Composition (6 hours)

ENGL 1113	English Composition I	3 hrs*
ENGL 1213	English Composition II	3 hrs*

Liberal Arts (4 hours)

HPES --	Physical Education Activity Class	1 hr
IDIS 1553	College Gateway: Saints Seminar	3 hr*

Mathematics (3 hours)

MATH 1513	College Algebra	3 hrs*
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Natural Sciences (8 hours)

BIOL 1114	General Biology I with Lab	4 hrs*
CHEM 1114	General Chemistry I with Lab	4 hrs*

U.S. History and Government (6 hours)

HIST 1323/1423	American History	3 hrs
POLS 1523	American Federal Government	3 hrs

Core Electives (9 hours)

University Core Requirement is 51 hours.

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*
MATH 1714	Calculus I	4 hrs*
NATS 1314	Intro to Physics I with Lab	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 70 hours.

GRADUATION REQUIREMENT:

BIOL 4883	Biology Capstone	3 hrs*
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124 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.