

## 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.

### 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)

BIBL 1113	Survey of the Bible	3 hrs
BIBL 2313	Life of Christ	3 hrs
PHIL 1123	Christian Apologetics	3 hrs
SOCI 2403	Marriage and Family	3 hrs
THEO 1223	Christian Doctrine	3 hrs

#### 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 1113	Christian Ethics	
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)

BIOL 1114	General Biology I	4 hrs*
CHEM 1114	General Chemistry I	4 hrs*
MATH 1513	College Algebra	3 hrs*
MATH 1714	Calculus I	4 hrs*

General Education Requirement is 54 hours.

#### General Education Competency (Required):

[Computer Science Competency](#) (See further details page #41)

#### 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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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.