



Bachelor of Science: Biology Major

The Biology program strives to give students a well-rounded Biology education, with a broad-based biological background. In this way, the program allows for maximum flexibility in career choice, whether it be research, medicine, teaching, or another related discipline. The program also provides all the courses required for application and admission into professional programs such as Medicine, Dentistry, Chiropractics, Pharmacology, Optometry, and Veterinary Medicine.

Students can choose to follow a path that best suits their career goals by choosing courses in several sub-disciplines of Biology – including Cell Biology, Zoology, Microbiology, Ecology, Botany, and Physiology. The degree program also includes coursework in Biochemistry, Chemistry, Physics and Math. The program will help the students develop critical thinking skills as well as practical research techniques and laboratory skills.

Program Planning Guide

This program planning guide is designed to help you plan your degree program. When you have met a requirement, place a check mark beside it. When all of the requirements are checked, you should be eligible for graduation.

Please remember that this is only a guide—the Academic Calendar is the final authority on academic questions, including academic policies and program requirements. Students are responsible for the accuracy of their own programs. This is not a graduation check or an application for graduation.

General Requirements

- Completion of 120 credits
- Completion of core requirements
- Completion of degree requirements
- A minimum of 72 credits taken at the 200 level or higher
- At least 102 credits in the Arts and Sciences
- A minimum of 27 senior Biology field electives
- A cumulative grade point average (CGPA) of at least 2.0 is required to graduate, with a GPA of at least 2.0 in all biology courses.

DEGREE REQUIREMENTS:

Christian Studies (REL) (9 credits)

- REL 120 The Old Testament and Its Interpretation
- REL 121 The New Testament and Its Interpretation
- 3 credits in Religion at the senior level

English (EN) (6 credits)

- EN 110 Effective Writing
- 3 credits in English at the senior level _____

Fine Arts (ART, FA, MU, TH) (3 credits)

History (HI) (3 credits)

HI 141 World Civilizations to 1500 **or** HI 142 World Civilizations since 1500

Philosophy (PH) (3 credits)

PH 125 Introduction to Philosophy

Social Sciences (PS, SO) (6 credits)

SO 121 Principles of Sociology

PS 121 Introduction to Psychology

Biology (BIO) (15 credits)

BIO 131 Introduction to Biology I

BIO 133 Introduction to Biology II

BIO 211 Principles of Genetics

BIO 213 Introduction to Ecology and Evolution

BIO 231 Introduction to Cellular and Molecular Biology

Biochemistry (BCH) (3 credits)

BCH 241 Biochemistry of Life Processes

Senior Science Electives (BIO, BOT, SCH, CS, FOR, STA, ZOO) (27 credits)

For those considering professional schooling (i.e., Medicine or Dentistry), senior science courses must include Zoology 261/263 (Hyman Physiology)

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Required cognate courses (27 credits):

Chemistry (12 credits)

CHE 101 General Chemistry I

CHE 103 General Chemistry II

CHE 251 Organic Chemistry I

CHE 253 Organic Chemistry II

Math/Statistics (6 credits)

Two of:

MA 111 Linear Algebra

MA 149 Introductory Calculus **or**

MA 151 Calculus I

MA 153 Calculus II

STA 210 Quantitative Methods

Physics/Geology/Computer Science (9 credits)

PHY 111 Mechanics

Two of:

PHY 123 Introductory Electromagnetism and Thermal Physics

GEO 109 Introduction to Geology

CS 100 Introduction to Computers

CS 115 Introduction to Computer Programming

Open Electives (18 credits)

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