

# Biology (BS)

## Bachelor of Science

### Description

The Bachelor of Science (BS) in Biology program focuses on deep knowledge of core concepts in biology, chemistry, math, and physics. Students engage in challenging courses and lab opportunities to become independent thinkers and problem solvers. Students sharpen research skills, critical thinking, and scientific reasoning while building a foundation for diverse career options. With a flexible curriculum and diverse electives, students tailor their education to specific interests. This program prepares students for graduate degrees in health-related fields and diverse career opportunities in the biological sciences.

### Admissions Requirements

- A high school diploma or GED
- Credentials earned outside of the US must be evaluated by an approved agency
- GPA of 2.0 or higher
- Official transcripts from all previously attended institutions
- Completed application with Carolina University

### Graduation Requirements

- Shall have maintained a minimum cumulative GPA of 2.0;
- Shall have passed all courses in the curriculum and made a C- or better in professional core courses;
- Shall have completed at least 24 of the final 30 hours with Carolina University.

### Courses

#### General Education Core (36 Credit Hours) - must include the following:

##### [GC 111 - Mathematics I](#)

3 Credit Hours

##### [BG 110 - Biology I](#)

3 Credit Hours

##### [BG 210 - Biology II](#)

3 Credit Hours

#### Professional Core (56 Credit Hours)

##### [BG LB1 - Biology I Lab](#)

1 Credit Hour

##### [BG LB2 - Biology II Lab](#)

1 Credit Hour

##### [BG 220 - Genetics](#)

3 Credit Hours

[BG 230 - Developmental Biology](#)

3 Credit Hours

[BG 310 - Microbiology with Lab](#)

4 Credit Hours

[BG 320 - Introduction to Cell Biology](#)

3 Credit Hours

[BG 330 - Introduction to Molecular Biology](#)

3 Credit Hours

[BG 340 - Ecology](#)

3 Credit Hours

[BG 410 - Immunology](#)

3 Credit Hours

[BG 420 - Biochemistry](#)

3 Credit Hours

[CH 110 - General Chemistry I w/Lab](#)

4 Credit Hours

[CH 115 - General Chemistry II w/Lab](#)

4 Credit Hours

[CH 210 - Organic Chemistry w/Lab](#)

4 Credit Hours

[GC 112 - Mathematics II](#)

3 Credit Hours

[GC 205 - Calculus I](#)

3 Credit Hours

[MG 210 - Introduction to Statistics](#)

3 Credit Hours

[PY 210 - General Physics I w/Lab](#)

4 Credit Hours

[PY 215 - General Physics II w/Lab](#)

4 Credit Hours

### **Professional Electives (18 Credit Hours)**

[BG 240 - Plant Biology w/Lab](#)

4 Credit Hours

[BG 250 - Zoology](#)

3 Credit Hours

[BG 350 - Human Genetics](#)

3 Credit Hours

[BG 360 - Human Biology](#)

3 Credit Hours

[BG 415 - Neurobiology I](#)

3 Credit Hours

[BG 430 - Neurobiology II](#)

3 Credit Hours

[BG 440 - Seminar in Biology](#)

1 Credit Hour

[BG 450 - Anatomy of Vertebrates](#)

3 Credit Hours

[BG 460 - General Physiology w/Lab](#)

4 Credit Hours

[BG 470 - Lab methods in MolecularBiology](#)

4 Credit Hours

[BG 480 - Research Statistical Methodsfor Biological Sciences](#)

3 Credit Hours

[PH 310 - Public Health Biology](#)

3 Credit Hours

[PH 315 - Public Health Biology II](#)

3 Credit Hours

**Free Electives (12 Credit Hours)**