

# **Biology (BA)**

## **Bachelor of Arts**

### **Description**

The Biology program at Carolina University focuses on foundational studies of the structure, function, behavior and evolution of cells, organisms, populations and ecosystems. Through challenging and engaging courses, fieldwork and lab opportunities, our students will develop a foundation for broad and diverse career options in the biological sciences and related fields.

The Bachelor of Science and Bachelor of Arts in Biology provide rigorous education and basic research skills for a diverse undergraduate student population. Through this program, students will develop into independent thinkers, problem solvers and valuable members of society. These programs provide training in biology at multiple levels and provide flexibility, providing students with the opportunity to choose a curriculum that best suits their needs.

The BS Biology option emphasizes breadth of training in biology with stringent structure. Students have input in the composition of their degree by choosing from the wide range of electives available through the School of Arts and Sciences.

The BA Biology degree is designed for students who desire a breadth of training throughout their program of study. This is an ideal program for students wishing to get the scope of the biological sciences without some of the supporting science sequences, providing them with more room to take elective courses either within or outside of the biology program.

### **Admissions Requirements**

- A high school diploma or GED
- GPA of 2.0 or higher
- Official transcripts from all previously attended schools
- Completed application with Carolina University

### **Graduation Requirements**

In order to become a candidate for graduation a student:

1. Shall have completed a minimum of 30 credit hours at CU;
2. Shall have maintained a minimum academic average of C (higher for some programs);
3. Shall have passed all courses in his/her curriculum and made a C or better in key courses designated as essential in each program;
4. 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:**

[BG 110 - Biology I](#)

3 Credit Hours

[BG 210 - Biology II](#)

3 Credit Hours

[GC 111 - Mathematics I](#)

3 Credit Hours

[MG 210 - Introduction to Statistics](#)

3 Credit Hours

### **Professional Core (47 Credit Hours)**

[BG 220 - Genetics](#)

3 Credit Hours

[BG 250 - Zoology](#)

3 Credit Hours

[BG 310 - Microbiology](#)

3 Credit Hours

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

3 Credit Hours

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

3 Credit Hours

[BG 340 - Evolution & Ecology](#)

3 Credit Hours

[BG 420 - Biochemistry](#)

3 Credit Hours

[BG 440 - Seminar in Biology](#)

1 Credit Hour

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

4 Credit Hours

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

4 Credit Hours

[GC 112 - Mathematics II](#)

3 Credit Hours

[GC 205 - Calculus I](#)

3 Credit Hours

[GC 206 - Calculus II](#)

3 Credit Hours

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

4 Credit Hours

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

4 Credit Hours

### **Biology Electives (13 Credit Hours)**

**9 Credit Hours must be 400-level or higher; 4 Credit Hours from lab courses**

[BG 230 - Developmental Biology](#)

3 Credit Hours

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

4 Credit Hours

[BG 350 - Human Genetics](#)

3 Credit Hours

[BG 360 - Human Biology](#)

3 Credit Hours

[BG 410 - Immunology](#)

3 Credit Hours

[BG 415 - Neurobiology I](#)

3 Credit Hours

[BG 430 - Neurobiology II](#)

3 Credit Hours

[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 (24 Credit Hours)**