



### 2026-2027

## BIOLOGICAL SCIENCE GRADES 8-12 MAJOR, B.S.

Biology & Chemistry Department; Shaw School of Sciences

Asbury is well known for the quality of its education programs, and science teachers are in demand. The Science and Health Department offers majors leading to grades 8-12 certification in either Biology or Chemistry.

*Students must complete all Foundations requirements and major requirements, as well as any additional General Electives needed to reach the minimum of 124 total credits required for a Bachelor's degree. This program may require more than 124 credits for a degree due to specific requirements.*

[Education majors must choose COM130 in the Foundations Communication pool due to state certification requirements.]

### **MAJOR REQUIREMENTS (88)**

#### Biology requirements (49)

- \_\_ 3 BIO 201 General Biology I
- \_\_ 1 BIO 203 General Biology Lab I
- \_\_ 3 BIO 202 General Biology II
- \_\_ 1 BIO 204 General Biology Lab II
- \_\_ 3 BIO 322 Genetics
- \_\_ 2 BIO 341 Ethical Issues
  
- \_\_ 3 CHE 121 Gen College Chemistry I
- \_\_ 3 CHE 122 Gen College Chemistry II
- \_\_ 1 CHE 123 Gen College Chemistry Lab I
- \_\_ 1 CHE 124 Gen College Chemistry Lab II
  
- \_\_ 3 ED 263 Science Content (P-5)
  
- \_\_ 4 PHY 201 Intro Physics I    \_\_ Lab

#### Choose one Environmental Biology:

- \_\_ 4 BIO 217+219 Environmental Sci
- BIO 221+223 Ecology

#### Choose one Plant Biology:

- BIO 227+229 Aquatic/Wetland Biology
- \_\_ 4 BIO 272+274 Principles Plant Biology

#### Choose one Human Biology:

- \_\_ 4 BIO 211+213 Microbiology
- BIO 331+333 Human Anatomy

#### Choose 2 additional Biology electives not used above:

- BIO 211+213 Microbiology
- BIO 262 Human Physiology (3)
- \_\_ 3-4 BIO 280 Scientific/Medical Terminology (3)
- \_\_ 3-4 BIO 331+333 Human Anatomy
- BIO 352+354 Physiology
- BIO 372+374 Cell & Molecular Biology

#### Education requirements (39)

- \_\_ 2 ED 200 Intro to Education
- \_\_ 2 ED 220 Tech for Education
- \_\_ 2 ED 230 Human Growth/Development
- \_\_ 1 ED 301 Guided Inquiry Clinical
- \_\_ 3 ED 320 Exceptional Learner
- \_\_ 3 ED 385 Read/Writ Across Curriculum
- \_\_ 1 ED 401 Open Inquiry Clinical
- \_\_ 3 ED 405 Learning/Perform & Assess
- \_\_ 3 ED 410 Classroom Management
- \_\_ 3 ED 420 Content Methods
- \_\_ 1 ED 424 Content Methods Lab
- \_\_ 3 ED 428 Intervention for Differentiation
- \_\_ 12 ED 499 Student Teaching

Also,

Satisfy math proficiency for major:

\_\_ 0 Met by ACT/SAT score of 24/580

OR

If MATH ACT/SAT score is below 24/580-

Complete:

- MAT 111 College Algebra\*\* (transfer only)
- MAT 112 Precalculus\*\* (transfer only)
- \_\_ 3-4 MAT 180 Intro to Calculus    \_\_ Lab
- MAT 181 Calculus I            \_\_ Lab

\*\*Please note that College Algebra and Precalculus do NOT satisfy the Foundational MAT course requirement.

### **Plus FOUNDATIONS REQUIREMENTS (43)**

(4 credits Science + Lab satisfied by required major courses; Foreign Language not required for B.S. BIOE majors. Degree becomes B.A. with completion of Foreign Language.)

### **Plus GENERAL ELECTIVES if needed to reach minimum 124 credits**