

2024-2025

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

Science & Health 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.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement. 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)**

3 1 3 1 3 2	BIO 201   BIO 203   BIO 202   BIO 202   BIO 204   BIO 322   BIO 341		General Biology I General Biology Lab I General Biology II General Biology Lab II Genetics Ethical Issues				
3 3 1 1	CHE CHE CHE CHE	121 122 123 124	Gen College Chemistry I Gen College Chemistry II Gen College Chemistry Lab I Gen College Chemistry Lab II				
3	ED	263	Science Content (P-5)				
4	PHY	201	Intro Physics ILab				
4	ose one Environmental Biology: BIO 217+219 Environmental Sci BIO 221+223 Ecology ose one Plant Biology: BIO 227+229 Aquatic/Wetland Biology						
4	BIO		Principles Plant Biology	Сс			
Choose c 4	one Humai BIO BIO	211+213	Microbiology Human Anatomy	**I			
Choose 2	Choose 2 additional Biology electives not used above: BIO 211+213 Microbiology BIO 262 Human Physiology (3)						
3-4 3-4	BIO BIO BIO BIO	352+354	Scientific/Medical Terminology (3) Human Anatomy Physiology Cell & Molecular Biology	<u>PL</u> (4 La			

Complete Education requirements:								
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					

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 MAT	111 112	College Algebra** (transfer o Precalculus** (transfer only)	nly)
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 FOUNDATIONAL REQUIREMENTS (43)

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

Plus electives if needed for the 124 hour degree requirement