



2026-2027

## CHEMISTRY 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 interested in middle school certification choose two concentration areas, one of which can be Science.

*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)

#### Chemistry Requirements (49)

__ 3	BIO	201	General Biology I
__ 1	BIO	203	General Biology Lab I
__ 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	CHE	221	Organic Chemistry I
__ 3	CHE	222	Organic Chemistry II
__ 1	CHE	223	Organic Chemistry Lab I
__ 1	CHE	224	Organic Chemistry Lab II
__ 4	CHE	321	Analytical Chemistry ___ Lab
__ 4	CHE	421	Physical Chemistry I ___ Lab
__ 3	ED	263	Science Content (P-5)
__ 4	MAT	181	Calculus I ___ Lab
__ 4	PHY	201	Intro Physics I ___ Lab
__ 4	PHY	202	Intro Physics II ___ Lab

__ 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/Performing Assess
__ 3	ED	410	Classroom Management
__ 3	ED	420	Content Methods
__ 1	ED	424	Content Methods Lab
__ 3	ED	428	Interventions/Differentiation
__ 12	ED	499	Student Teaching

Choose one:

__ 4	BIO	372+374	Cell & Molecular Biology
	CHE	361+363	Biochemistry & Lab

### Plus FOUNDATIONS REQUIREMENTS (40)

(3 credits Math and 4 credits Science satisfied by required major courses; Foreign Language not required for B.S. CHEE majors. Degree becomes B.A. with completion of foreign language.)

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

Education Requirements (39)