



2023-2024

## CHEMISTRY GRADES 8-12 MAJOR, B.S.

Science & Health Department; School of Science, Health & Mathematics

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.

*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	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

### 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/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 hours Math and 4 hours 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 electives if needed for the 124 hour degree requirement