



2018-2019

## 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.*

### MAJOR REQUIREMENTS (94)

__ 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
__ 4	CHE	201	Organic Chemistry I ___ Lab
__ 4	CHE	202	Organic Chemistry II ___ Lab
__ 4	CHE	321	Analytical Chemistry ___ Lab
__ 1	CHE	399	Intro to Chem Research
__ 2	CHE	400	Senior Research
__ 3	ESC	150	Earth Science
__ 1	ESC	151	Earth Science Lab
__ 4	MAT	181	Calculus I ___ Lab
__ 4	MAT	182	Calculus II ___ Lab
__ 4	PHY	201	Intro Physics I ___ Lab
__ 4	PHY	202	Intro Physics II ___ Lab

Choose one:

__ 4	BIO	372+ 374	Cell & Molecular Biology ___ Lab
	CHE	371	Biochemistry ___ Lab

Choose one:

__ 4	CHE	421	Physical Chemistry I ___ Lab
	CHE	422	Physical Chemistry II ___ Lab

### Complete Education Requirements:

__ 2	ED	200	Intro to Education
__ 1	ED	201	Struct Inquiry Clinical
__ 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
__ 2	ED	410	Classroom Management
__ 3	ED	420	Secondary/P-12 Methods
__ 2	ED	428	Interventions/Differentiation
__ 12	ED	499	Student Teaching

### PLUS FOUNDATIONAL REQUIREMENTS (36)

(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