



2022-2023

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.

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	
__ 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	
__ 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

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

Choose one:

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

Choose one:

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

PLUS FOUNDATIONAL 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