



2024-2025

CHEMISTRY - BIOCHEMISTRY MAJOR, B.S.

Science & Health Department; Shaw School of Sciences

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 (82)

Cross-Disciplinary Requirements (29)

__ 3	BIO	201	General Biology I	
__ 3	BIO	202	General Biology II	
__ 1	BIO	203	General Biology Lab I	
__ 1	BIO	204	General Biology Lab II	
__ 2	BIO	341	Ethical Issues	
__ 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
__ 3	PSY	315	Stats for Behavioral Science	

Choose one:

__ 3	BIO	322	Genetics
	BIO	379	Immunology

Choose one Health Care course:

__ 3 HC _____

Choose one additional 4-credit Science 300 or higher with lab:

__ 4 BIO/CHE _____

Chemistry Requirements (35)

__ 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
__ 3	CHE	361	Biochemistry	
__ 1	CHE	363	Biochemistry Lab	
__ 3	CHE	382	Inorganic Chemistry	
__ 1	CHE	399	Intro to Chem Research	
__ 2	CHE	400	Senior Research	
__ 4	CHE	421	Physical Chemistry	__ Lab
__ 1	CHE	475	Senior Seminar	

Biochemistry Track (18)

__ 3	BIO	352	Physiology	
__ 1	BIO	354	Physiology Lab	
__ 3	BIO	372	Cell & Molecular Biology	
__ 1	BIO	374	Cell & Molecular Biology Lab	

PLUS FOUNDATIONS REQUIREMENTS (49)

(3 hours Math and 4 hours Science satisfied by required major courses.)

Plus electives if needed for the 124 hour degree requirement