

2019-2020

BIOCHEMISTRY MAJOR, B.A.

Science & Health Department; College of Arts and Sciences

Biochemistry is an interdisciplinary major that focuses on the interface between biology and chemistry. It combines basic courses in biology, chemistry, and physics with advanced courses in chemical instrumentation, cell and molecular biology, and biochemistry. This whole area constitutes one of the most active and exciting areas in science as scientists seek to understand the molecular basis of life. Students who major in biochemistry usually go on to graduate school in biochemistry, molecular biology, or various related fields of study. Another possible goal is an M.D. or PhD degree for some one interested in medical research. It also offers preparation for chemists in entry level positions in industry or research.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.

MAJOR REQUIREMENTS (72)

3 1 3 1 2 3 1	BIO BIO BIO BIO BIO	201 203 202 204 341	General Biology I General Biology Lab I General Biology II General Biology Lab II Ethical Issues	Take: 1 2 1	BIO/CHE 399 BIO/CHE 400 BIO/CHE 475		Intro to Research Senior Research Senior Seminar
3 1	BIO BIO	372 374	Cell & Molecular Biology Cell & Molecular Biology Lab	Choose 4	CHE	421	Physical Chemistry Ilab
3 1 1 4 4 4 4 3 4	CHE CHE CHE CHE CHE CHE CHE CHE CHE	121 122 123 124 201 202 321 322 371	Gen College Chemistry I Gen College Chemistry II Gen College Chemistry Lab I Gen College Chemistry Lab II Organic Chemistry Ilab Organic Chemistry IIlab Analytical Chemistrylab Chemical Instrumentationlab Biochemistrylab		CHE	422	Physical Chemistry IIlab
4 4	MAT MAT	181 182	Calculus Ilab Calculus IIlab				
4 4	PHY PHY	201 202	Intro Physics Ilab Intro Physics IIlab				
Choose 4	one: BIO BIO		F Physiologylab F Principles Plant Biologylab				
Choose one: 3 BIO BIO		322 379	Genetics Immunology	(3 hours	PLUS FOUNDATIONAL REQUIREMENTS (42) (3 hours Math and 4 hours Science satisfied by required major courses.)		
				Plus electives needed for the 124 hour degree requirement (10)			