## 2020-2021

## **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)**

3131231	BIO BIO BIO BIO BIO	201 203 202 204 341 372	General Biology I General Biology Lab I General Biology II General Biology Lab II Ethical Issues Cell & Molecular Biology		Take: 1 2 1 Choose	BIO/CH BIO/CH BIO/CH	E 400	Intro to Research Senior Research Senior Seminar
_3 _1	BIO	374	Cell & Molecular Biology La	b	4	CHE CHE	421 422	Physical Chemistry I Lab Physical Chemistry II Lab
311144434	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 Gen College Chemistry Lab Organic Chemistry I Organic Chemistry II Analytical Chemistry Chemical Instrumentation Biochemistry			ONE	122	
4 4	MAT MAT	181 182	Calculus I Calculus II	Lab Lab				
4 4	PHY PHY	201 202	Intro Physics I Intro Physics II	Lab Lab				
Choose 4	one: BIO BIO		Physiology Principles Plant Biology	Lab Lab				
Choose one: 3 BIO 322 Genetics BIO 379 Immunology				PLUS FOUNDATIONAL REQUIREMENTS (43) (3 hours Math and 4 hours Science satisfied by required major courses.)				

Plus electives needed for the 124 hour degree requirement (9)