Bachelor of Arts Major in Biochemistry (BIOC-BA)

Suggested Sequence of Chemistry, Biology, Math, and Physics Courses:

Students not placing in Math 118 or higher cannot start the Chemistry sequence until Math 117 is completed with a grade of C- or better. Such students are advised to enroll in first-year Chemistry courses in the summer sessions (after meeting the math requirement) in order to complete the major in four years.

First Year					
Fall	Chemistry 160		Chemistry 180		
	Chemistry 161	b	Chemistry 181		
	Biology 101	prir	Biology 102		
	Biology 111	S	Biology 112		
	Math 131 or 161		Math 132 or 162		

Soph	Sophomore Year				
	Chemistry 240		Spring	Chemistry 260	
_	Chemistry 242*			Biology 251	
Fal	Biology 282			Biology 283	
_	Physics 111			Physics 112	
	Physics 111L			Physics 112L	

*Chemistry 242 can be taken in either semester

Juni	or Year				
	Chemistry 272		_	Chemistry 306	
Fall	Chemistry 370		Spring	Chemistry 307	
	Chemistry 305			Chemistry 371	

Senior Year					
	Biochemistry Elective**			Biochemistry Elective**	
Fall			Spring		
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**Two Biochemistry Electives are required:

One course <u>must</u> be from among these Biochemistry Focus Electives: **CHEM 365, 385, 386, 387, 388**

and for the other you can choose from any of these Biochemistry Electives: CHEM 323, 365, 385, 386, 387, 388, 396 BIOL 335, 380, 382, 388, 389

Chemistry 300 (Undergraduate Research) and Chemistry 380 (Seminar) are strongly recommended and required to receive Departmental Honors with graduation. Credit hours earned in Chemistry 300 and/or Chemistry 380 do <u>not</u> count as elective hours satisfying the BIOC degree requirement. Chemistry 361 does <u>not</u> count towards the BIOC-BA degree.

(This is additional information for the B.A. Major in Biochemistry)

Course #	Course Title	Credits		
Chem 160	Chemical Structure and Properties	3		
Chem 161	Chemical Structure and Properties Laboratory	1		
Chem 180	Chemical Reactivity I	3		
Chem 181	Chemical Reactivity I Laboratory	1		
Chem 240	Chemical Reactivity II	3		
Chem 242	Chemical Synthesis Laboratory	2		
Chem 260	Quantitative Methods in Chemistry	3		
Chem 272	Analytical Chemistry Laboratory	2		

BIOC-BA Foundational CHEM Classes

BIOC-BA Advanced CHEM Classes

Chem 305	Physical Chemistry for the Biological Sciences (Biochem Majors only)	3
Chem 306	Physical Biochemistry Laboratory (Biochem Majors only)	1
Chem 307	Inorganic Chemistry for Biochem. Majors	3
Chem 370	Biochemistry I (for Biochem and Chem majors)	3
Chem 371	Biochemistry II (for Biochem Majors)	3

Biochemistry Electives

Chem 323	Medicinal Chemistry	3
Chem 365*	Proteomics	3
Chem 385*	Advanced Enzyme Kinetics and Mechanisms	3
Chem 386*	Chemistry of Enzymes	3
Chem 387*	Plant Biochemistry	3
Chem 388*	Biophysical Chemistry	3
Chem 396	Special Topics in Biochemistry	3
Biol/Stat 335	Biostatistics	3
Biol 380	Genetics and Evolution of Development	3
Biol 382	Molecular Genetics	3
Biol 388	Bioinformatics	3
Biol 389	Introduction to Pharmacology	3

*Indicates that one of these courses is required to meet the Biochemistry Focus Electives Coursework for the major.