

Student ID:
Student Name:

Chemistry: Biochemistry Specialization

This major only requires 52-55 upper division credits, must have 60 upper division credits to graduate.

GENERAL CHEMISTRY Credits: 15 (taken in sequence)		
Course Name: (Prerequisites)	Credits	Term Taken
CHEM 181 - General Chemistry I	4	
CHEM 181LAB - General Chemistry Laboratory I	1	
CHEM 182 - General Chemistry II	4	
CHEM 182LAB - General Chemistry Laboratory II	1	
CHEM 183 - General Chemistry III (<i>Prerequisites: MATH 153 or qualify for MATH 154 on Compass Test</i>)	4	
CHEM 183LAB - General Chemistry Laboratory III --OR-- CHEM 193LAB - General Chemistry III Honors Laboratory	1	

ORGANIC CHEMISTRY Credits: 13 (taken in sequence)		
Course Name: (Prerequisites)	Credits:	Term Taken
CHEM 361 - Organic Chemistry 1 (<i>Chem 183</i>)	3	
CHEM 361LAB - Organic Chemistry Laboratory I	2	
CHEM 362 - Organic Chemistry II	3	
CHEM 363 - Organic Chemistry III	3	
CHEM 363LAB - Organic Chemistry Laboratory III	2	

Required Course Credits: 9		
Course Name: (Prerequisites)	Credits:	Term Taken
BIOL 321- Genetics (<i>Prerequisites: Biol 183 or Biol 220 and either Biol 213 or Chem 332 and Chem 332 Lab</i>)	5	
CHEM 350 - Inorganic Chemistry (<i>Chem 183, Phys 113/183</i>)	3	
CHEM 488 - Colloquium (<i>Must be senior standing</i>)	1	

GENERAL BIOLOGY Credits: 15 (taken in sequence)		
Course Name: (Prerequisites)	Credits:	Term Taken
BIOL 181 : General Biology I (<i>Chem 181: can be corequisite</i>)	5	
BIOL 182: General Biology II (<i>Chem 182: can be corequisite</i>)	5	
BIOL 183: General Biology III (<i>Chem 183: can be corequisite</i>)	5	

UPPER DIVISION Credits: 28		
Course Name: (Prerequisites)	Credits:	Term Taken
CHEM 332 - Quantitative Analysis (<i>Chem 183/183Lab</i>)	3	
CHEM 332 LAB- Quantitative Analysis Lab	2	
CHEM 381 - Physical Chemistry I (<i>Prerequisite: Chem 183 and Chem 183 Lab, Math 272, and either PHYS 113 and 113 Lab or PHYS 183 and 183 Lab</i>)	5	
CHEM 382 - Physical Chemistry II (<i>Chem 381</i>)	3	
CHEM 382LAB - Integrated Physical/Inorganic Lab I	2	
CHEM 431- Biochemistry I (<i>Chem 362</i>)	3	

CHEM 431 Lab- Biochemistry Lab	2	
CHEM 432 - Biochemistry II (<i>Chem 431</i>)	3	
CHEM 433 - Biochemistry III (<i>Chem 431</i>)	3	
CHEM 433 Lab - Biochemistry Lab II	2	

PHYSICS CREDITS: 15
Course Name:
PHYS 111, 112, 113 with Labs
--OR-- PHYS 181,182,183 with Labs

CALCULUS CREDITS: 15
Course Name:
MATH 172 , 173, 272

Department Approved Electives: 2-5 Credits Required		
Course Name: (Prerequisites)	Credits:	Term Taken
BIOL 323 - Microbiology (<i>Biol 213 and Biol 183 or 220</i>)	5	
BIOL 425 - Molecular Biology (<i>Biol 321</i>)	5	
BIOL 430 - Cell Biology (<i>Chem 361/361Lab, and Biol 182</i>)	5	
CHEM 383 - Physical Chemistry III (<i>Chem 382</i>)	3	
CHEM 383 Lab - Physical/Inorganic Lab (<i>Chem 382Lab</i>)	2	
CHEM 452 - Instrumental Analysis (<i>Chem 332/332Lab</i>)	3	
CHEM 452 Lab - Instrument Analysis Lab	2	
CHEM 295, 395, or 495 Research **	1-6	

*** A combined maximum of 6 credits may be applied from CHEM 295, 395, and 495. To count towards the ACS certified degree, the student is required to turn in a comprehensive research report prior to graduation.*

Notes:
