Student ID:
Student Name:

BS Biochemistry

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 (*Prerequisites: MATH 153 or qualify for MATH 154 on Compass Test)*	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 *(Chem 183)*	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 (*Biol 183 or Biol 220 and either Biol 213 or Chem 332 and Chem 332 Lab)*	5	
CHEM 350 - Inorganic Chemistry *(Chem 183, Phys 113/123/183)*	3	
CHEM 488 - Colloquium *(expected in Wtr or Spr of final year)*	1	

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

UPPER DIVISION Credits: 28		
Course Name: (Prerequisites)	Credits:	Term Taken
CHEM 332 - Quantitative Analysis *(Chem 183/183Lab)*	3	
CHEM 332 LAB- Quantitative Analysis Lab	2	
CHEM 381 - Physical Chemistry I (*Chem 183 and Chem 183 Lab, Math 272, and PHYS 113/123/183 with labs)*	5	
CHEM 382 - Physical Chemistry II *(Chem 381)*	3	
CHEM 382LAB - Integrated Physical/Inorganic Lab I	2	

Turn page over for more requirements

CHEM 431- Biochemistry I *(Chem 362)*	3	
CHEM 431 Lab- Biochemistry Lab	2	
CHEM 432 - Biochemistry II *(Chem 431)*	3	
CHEM 433 - Biochemistry III *(Chem 431)*	3	
CHEM 433 Lab - Biochemistry Lab II	2	

PHYSICS CREDITS: 15
Course Name:
PHYS 111, 112, 113 with Labs --OR-- PHYS 121, 122, 123
--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 *(Biol 213 and Biol 183 or 220)*	5	
BIOL 425 - Molecular Biology *(Biol 321)*	5	
BIOL 430 - Cell Biology *(Chem 361/361Lab, and Biol 182)*	5	
CHEM 383 - Physical Chemistry III *(Chem 382)* AND CHEM 383 Lab - Physical/Inorganic Lab *(Chem 382Lab)* **Lecture and lab must be taken together**	5	
CHEM 452 - Instrumental Analysis *(Chem 332/332Lab)* AND CHEM 452 Lab - Instrument Analysis Lab **Lecture and lab must be taken together**	5	
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: