Major - Biochemistry - BS

General Education

FYS/AES	
Language I	
Language II	
Language III	
Language IV	
FRA	
FRA	
Intercultural Perspectives	

7 of the following 8 distribution requirements

Humanities	
Humanities	
Math/Computer Science	*major*
Nat. Sci./Lab	*major*
SS Div. (2 different departments)	
SS Div. (2 different departments)	
FA/Lecture	
FA/Performance	

Specific additional requirements for BS Degree

BIO50-102, Cell Biology	*major*
BIO51-112, Biodiversity	*major*
BIO50-122, Genetics and Evolution	*major*
BIO50-162, Genes and Molecules	*major*
CHE51-153/151, General Chemistry I & Lab	*major*
CHE51-163/161, General Chemistry II & Lab	*major*
or	
CHE51-173/171, Accelerated General Chemistry & Lab	*major*
CHE51-214, Quantitative Methods of Analysis	
MAT52-154, Calculus I	*major*
MAT52-254 or 52-114 or CSC54-184	*major*
PHY53-154, Fundamentals of Physics I	*major*
PHY53-164, Fundamentals of Physics II	*major*

Major

CHE51-154/164 or CHE51-174/184	
CHE51-154 General Chemistry I	
CHE51-164 General Chemistry II	
CHE51-174 Accelerated Gen Chemistry I	
CHE51-184 Accelerated Gen Chemistry II	
CHE51-352, Chemistry Literature Seminar	

The following courses taken at SU:

CHE51-544, Organic Chemistry I	
CHE51-564, Organic Chemistry II for Majors	
CHE51-574 General Biochemistry I	
CHE51-584 General Biochemistry II	
CHE51-634, 644, OR 714	
CHE51-634 Bioinorganic Chemistry	
CHE51-644, Instrumental Methods of Analysis	
CHE51-714, Physical Chemistry: Thermadynamics & Kinetics	
CHE51-682, Advanced Topics in Biochemistry	
2 research credits from CHE51-971/991; AND 912 Capstone (2 cred. Research plus 912 make up the capstone) OR—CHE51-802 and 912	
BIO50-102, Cell Biology	
BIO50-112, Biodiversity	
BIO50-122, Genetics and Evolution	
BIO50-162, Genes and Molecules	
BIO50-232, Methods in Cellular/Molecular Biology	
CHE51-592 or a cell/mol BIO course at 300-level or above	

Required supporting courses:

MAT52-154, Calculus I	
MAT52-254, Calculus II	
PHY53-154, Fundamentals of Physics I	
PHY53-164, Fundamentals of Physics II	

Credits required to graduate: **127**

64 must be above the 100 level
Major requires 12 courses