

## B. S. Chemistry-Biology

### 1st Year

___ CHE 103 General Chemistry I	3	___ CHE 104 General Chemistry II	3	
___ CRL 103 Exp. Gen. Chem. I	1	___ CRL 104 Exp. Gen. Chem. II	1	
___ MAT 161 Calculus I	4	___ BIO 217 General Zoology	3	
___ WRT 120 Effective Writing I	3	___ WRT XXX Writing Course ♡	3	
___ BIO 110 General Biology	3	___ MAT 121 Statistics I	3	14
	14		13	13

### 2nd Year

___ CHE 231 Organic Chemistry I	4	___ CHE 232 Organic Chemistry II	3	16
___ CRL 231 Exp. Org. Chem. I	2	___ BIO 230 Genetics	3	14
___ BIO 220 Cell Phys	3	___ GEd XXX Diverse Communities	3	14
___ PHY 130 Physics I ►	4	___ PHY 140 Physics II ►	4	121
___ GEd XXX Humanities (1)	3	___ SPK XXX Communications ♦	3	
	16		16	

### 3rd Year

___ CHE 321 Analytical Chemistry I	3	___ BIO 468 Comp. Vert. Phys. ♣	4	
___ CHE 341 Physical Chemistry I	4	___ GEd XXX Arts	3	
___ BIO 357 Comp. Vert. Anat	4	___ GEd XXX B/SS (2)	3	
___ PHI 371 Medical Ethics ▲	3	___ YYY Bio or Chem Elective ♣§	4	
___ GEd XXX B/SS (1)	3	___ CRL 321 Exp Analyt Chem I §	2	
___ CHE 418 Chemical Information §	1		16	
	18			

### 4th Year

___ CHE 476 Biochemistry I	3	___ BIO 448 Animal Developmnt	4	
___ CRL 476 Experimental Biochem I	2	___ CHE YYY Chemistry Elective ♣§	3	
___ GEd XXX Student Elective	3	___ CHE YYY Chemistry Elective ♣§	3	
___ GEd XXX Humanities (2)	3	___ GEd XXX Student Elective	3	
___ GEd XXX Student Elective	3	___ CHE 491 Chemistry Seminar	1	
	14		14	

Total Credits 121

\_\_\_ Department Safety Examination

### Program Notes:

- ♣ Students may substitute BIO 469 for BIO 468
- ♣ Biology and Chemistry electives must be at the 300 level or above.  
One exception is BIO 214, which may be taken in the Spring semester of the Junior year.  
This option is only for students wishing to take Immunology or Virology, and must be approved by the student's academic advisor.

### Notes on General Education Courses (Ged):

- ♡ Students may take WRT 206, 208, or 220
  - Students may substitute PHY 170 and 180 for PHY 130 and 140
  - ♦ Choose from SPK 208 or 230.
  - ▲ PHI 371 fulfills the Interdisciplinary requirement.
- Students must take three "W" courses; at least 3 credits must be in 300 or 400 level courses

§ Students may, with the permission of their academic advisor and department Chair, substitute an approved internship in the biochemical or biomedical field for certain of the requirements given above (denoted by §). These 12 credit hours are replaced with a 12 credit hour internship.

§ Students must take sufficient elective credits to attain 120 credits.