2021 Academic Planning Form: BIOCHEMISTRY B.S. As of 4/15/17

Example Sequence for BIOCHEMISTRY B.S. (most electives can be chosen at student's discretion.)

	Fall Semester	# of Credits	Spring Semester	# of Credits	Total Year Credits
1st Year	DWC 101 (4 credit hrs; Honors 5 credit hrs)	4	DWC 102 (4 credit hrs; Honors 5 credits hrs)	4	
	MTH 131 Calc & Analytical Geometry I	4	MTH 132 Calc & Analytical Geometry II	4	
	CHM 121 Intro Chemistry I w/ Lab	4	CHM 122 Intro Chemistry II w/ Lab	4	
	BIO 103 General Biology I w/ Lab	4	BIO 104 General Biology II w/ Lab	4	
	CHM 132 Intro to Biochemistry	1			
		17		**16**	**33**
2nd Year	DWC 201 (4 credit hrs; Honors 5 credit hrs)	4	DWC 202 (4 credit hrs; Honors 5 credits hrs)	4	
	CHM 221 Organic Chemistry I w/ Lab	4	CHM 222 Organic Chemistry II w/ Lab	4	
	EPS 101 General Physics I w/ Lab	4	EPS 102 General Physics II w/ Lab	4	
	BIO 200 Cellular and Molecular Biology	3	*Social Science core*	3	
		15		**15**	**30**
3rd Year	CHM 309 Biochemistry	3	CHM 321 & 321L Physical Chemistry I w/ Lab	4	
	CHM 331 Adv. Analytical Chemistry I w/ Lab	4	CHM 312 Biochemistry II	3	
	CHM 381 Chemistry Seminar	1	CHM 382 Chemistry Seminar	2	
	Theology I core	3	*Theology II core*	3	
	Core Focus elect. - part 1	3	*Core Focus elect. - part 2*	3	
		14		**15**	**29**
4th Year	Chemistry Elective(s)	3 or 4	CHM 310L Biochemistry Lab	3	
	CHM 481 Chemistry Seminar	2	CHM 482 Chemistry Seminar	0	
	BIO 308 Modern Genetics w/ Lab	4	*Free elective*	3	
	Fine Arts core	3	*Free elective*	3	
	Philosophy Elective	3	*Philosopy Ethics core*	3	
		16		**12**	**28**
Graduation Requirement includes a minimum of 120 credit hours			**Total Program of Study Credits**		**120**

Foundational Component:

DWC - 4 semester sequence, 16-20 cr.

Theology (Grp I & II) - 6 cr.

Philosophy (1 + Ethics) - 6 cr.

Natural Science - ***(CHM 121/121L)***

Social Science - 3 cr.

Quantitative Reasoning - ***(MTH 131 or MTH 132)***

Fine Arts - 3 cr.

Core Focus/Concentration:

2 courses/ 6 cr. from either the same core discipline, language **or** the same themed area[#]

[#]Students completing the Liberal Arts Honors Honors Program automatically satisfy the core focus requirement.

Major Requirements:

CHM 121-122, 221-222, 321-321L, 331, 381, 382, 481, 482

MTH 131-132, BIO 103-104, 200, 308

EPS 101-102

Note: CHM 310L and CHM 312 are offered in alternate years. Chemistry Elective may be any 300 or 400 level CHM course, student will receive ACS certification if CHM 401 is chosen.

Proficiencies: (many proficiencies may be attained by completion of designated Foundational or Core Focus courses.)

Intensive Writing - I

Intensive Writing - II (***in the major: BIO 200 and CHM 310L)***

Oral Communication ***(in the major: CHM 381/382/481/482)***

Diversity

Civic Engagement

For Study Abroad - fall of the junior year following consultation with department chair and provided one finds equivalent courses abroad.