

B.S. in Chemistry – Biochemistry Track
AY 2021-2022

	First Semester		Second Semester	
1st Year	CHEM 1211K (4) MATH 1551 (2) ENGL 1101 (3) GT 1000 (1) CS 1301* (3) APPH 10XX* (2) <i>Sub-Total (15)</i>	Chemical Principles I Differential Calculus English Comp. I Freshman Seminar CS Requirement Wellness Requirement	CHEM 1212K (4) CHEM 2601 (1) MATH 1552 (4) ENGL 1102 (3) BIOS 1107 (3) BIOS 1107L (1) <i>Sub-Total (16)</i>	Chemical Principles II Prof. Skills for Chemists Integral Calculus English Comp. II Biological Principles Biological Principles Lab
2nd Year	CHEM 2214 (4) CHEM 2311 (3) MATH 1553 (2) PHYS 2211 (4) Free Elective (3) <i>Sub-Total (16)</i>	Quantitative Analysis Organic Chemistry I Intro. Linear Algebra Intro. to Physics I	CHEM 2312** (3) CHEM 2380 (2) PHYS 2212 (4) MATH 2551 (4) Core Elective* (3) <i>Sub-Total (16)</i>	Organic Chemistry II Synthesis Lab I Intro. to Physics II Multivariable Calculus
3rd Year	CHEM 3411 (3) CHEM 3111 (3) CHEM 3380 (3) CHEM 4511 (3) Core Elective* (3) <i>Sub-Total (15)</i>	Physical Chemistry I Inorganic Chemistry Synthesis Lab II Biochemistry I	CHEM 3412 (3) CHEM 3481 (2) CHEM 4512 (3) CHEM 3216 (3) CHEM 3216L (2) Core Elective* (3) <i>Sub-Total (16)</i>	Physical Chemistry II Physical Chem Lab I Biochemistry II Analytical Chemistry Analytical Chemistry Lab
4th Year	CHEM 4581 (3) BCHM Elective*** (3) Core Elective* (3) Free Electives (5) <i>Sub-Total (14)</i>	Biochemistry Lab I	CHEM 4601 (2) BCHM Elective*** (3) Core Elective* (3) Core Elective* (3) Free Elective (3) <i>Sub-total (14)</i>	Chemistry Seminar

Note: 39 credit hours of 3XXX/4XXX level coursework is required to graduate.

Only Free Electives can be taken as Pass/Fail.

Maximum 6 hours of CHEM 2699 and 12 hours of CHEM 4699.

The last 36 hours must be taken in residence and may not be transferred in.

* Core Electives:	APPH 1040 or 1050 or 1060 (2) CS 1301 (3) Humanities electives (6 hours required) Social Sciences electives (9 hours required) History/constitution requirement: HIST 2111 (3), HIST 2112 (3), PUBP 3000 (3), INTA 1200 (3), or POL 1101 (3) (Credit not allowed for both INTA 1200 and POL 1101)
** CHEM 2312:	CHEM 2313, Bioorganic Chemistry II, can be substituted for CHEM 2312, Organic Chemistry II.
***BCHM Electives:	Select one of the following courses with a lab component (3-4 hours): BIOS 3450 & BIOS 3451, BIOS 3380 & BIOS 3381, OR CHEM 4582 AND Select one of the following (3 hours): CHEM 4521, CHEM 4582, CHEM 4765, BIOS 3380, BIOS 3450, BIOS 4340, BIOS 4418, BIOS 4401, BIOS 4464, BIOS 4570, OR BIOS 4668