B.S. Cheminformatics Degree

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

		SPRING	
FIRST YEAR			
CH1150 University Chemistry I AND CH1151 University Chemistry Lab I AND CH1153 University Chemistry I Recitation	3 1 1	CH1160 University Chemistry II AND CH1161 University Chemistry Lab II AND CH1163 University Chemistry II Recitation	3 1 1
OR CH1112 University Chem-Studio Lab I	5	OR CH1122 University Chem-Studio Lab II	5
CH1130 PDFC 1: Orientation PH1100 Physics by Inquiry I MA1160 Calculus with Technology I	1 1 4	CS1122 Intro Programming II MA2160 Calculus with Technology II PH2100 University Physics I-Mechanics	3 4 3
CS1121 Intro to Programming I JN1015 Composition (OR UN1025 Global Issues)	3 3	UN1025 Global Issues (OR UN1015 Composition)	3
TOTAL	17	TOTAL	18
SECOND YEAR			
CH2130 PDFC 2: Career Planning	2	CH2420 Organic Chemistry II	3
CH2410 Organic Chemistry I CH2411 Organic Chemistry Lab I	3 1	CH2212 Quantitative Analysis CS2321 Data Structures	5 3
MA2321 Elementary Linear Algebra	2	General Education Goal 8: Social Responsibility	J
MA3521 Elementary Differential Equations	2	& Ethical Reasoning (or Goal 4)	3
PH1200 Physics by Inquiry II PH2200 University Physics II – E&M General Education Goal 4: Critical & Creative	1 3	General Education HASS Distribution	3
Thinking (or Goal 8)	3		
TOTAL	17	TOTAL	17
THIRD YEAR			
CH3510 Physical Chemistry I	3	CH3130 PDFC 3: Communication	1
CH4710 Biomolecular Chemistry I	0	CH3520 Physical Chemistry II	3
or CH4310 Inorganic Chemistry I BL1040 Principles of Biology	3 4	MA3160 Multivariable Calculus with Technology *Required Elective	4 3
CS2311 Discrete Structures	3	General Education HASS Distribution	6
CS1141 C for Java Programmers	2		Ū
TOTAL	15	TOTAL	17
OURTH YEAR			
CS4321 Introduction to Algorithms	3	CH4130 PDFC 4: Senior Seminar	1
Required Elective	3	CS3425 Intro to Database Systems	3
Free Electives**	7	*Required Elective Free Electives**	3 3
		General Education HASS Distribution	3
		General Education HAGO Distribution	0

^{*} Required Electives must be chosen from the two specified Major Approved Electives lists. If CH4990 (undergraduate research) is chosen, it must be taken for two semesters for a minimum of 6 credits.

NOTE: 3 Units of co-curricular activities are required (P.E. courses are taught in 0.5 unit classes. Thus, 6 of these are needed for 3 units). It is highly recommended that students take at least one P.E. class during each semester of their first year, if possible.

For 2015-2016 Revised 8/20/2015

^{**}Free Electives – CH4412 Spectroscopy of Organic Chemistry is recommended for 3 of these credits.