

B.S. Cheminformatics Degree

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

FALL	SPRING
FIRST YEAR	
CH1150 University Chemistry I AND 3	CH1160 University Chemistry II AND 3
CH1151 University Chemistry Lab I AND 1	CH1161 University Chemistry Lab II AND 1
CH1153 University Chemistry I Recitation OR	CH1163 University Chemistry II Recitation OR
CH1112 University Chem-Studio Lab I 5	CH1122 University Chem-Studio Lab II 5
CH1130 PDFC 1: Orientation 1	CS1122 Intro Programming II 3
PH1100 Physics by Inquiry I 1	MA2160 Calculus with Technology II 4
MA1160 Calculus with Technology I 4	PH2100 University Physics I-Mechanics 3
CS1121 Intro to Programming I 3	UN1025 Global Issues (OR UN1015 Composition) 3
UN1015 Composition (OR UN1025 Global Issues) 3	
TOTAL 17	TOTAL 18
SECOND YEAR	
CH2130 PDFC 2: Career Planning 2	CH2420 Organic Chemistry II 3
CH2410 Organic Chemistry I 3	CH2212 Quantitative Analysis 5
CH2411 Organic Chemistry Lab I 1	CS2321 Data Structures 3
MA2321 Elementary Linear Algebra 2	General Education Goal 8: Social Responsibility & Ethical Reasoning (or Goal 4) 3
MA3521 Elementary Differential Equations 2	General Education HASS Distribution 3
PH1200 Physics by Inquiry II 1	
PH2200 University Physics II – E&M 3	
General Education Goal 4: Critical & Creative 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 or CH4310 Inorganic Chemistry I 3	CH3520 Physical Chemistry II 3
BL1040 Principles of Biology 4	MA3160 Multivariable Calculus with Technology 4
CS2311 Discrete Structures 3	*Required Elective 3
CS1142 Programming at HW/SW Interface 3	General Education HASS Distribution 6
TOTAL 16	TOTAL 17
FOURTH YEAR	
CS4321 Introduction to Algorithms 3	CH4130 PDFC 4: Senior Seminar 1
*Required Elective 3	CS3425 Intro to Database Systems 3
Free Electives** 6	*Required Elective 3
	Free Electives** 3
	General Education HASS Distribution 3
TOTAL 12	TOTAL 14
GRAND TOTAL = 128 Credits	

* 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.

**Free Electives – CH4412 Spectroscopy of Organic Chemistry is recommended for 3 of these 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.