B.S. Chemistry Degree (ACS Certified) *

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

First Year

Fall	
Course	Credit
CH 1130 PFDC 1: Orientation	1
CH 1150 University Chemistry I AND	3
CH 1151 University Chemistry Lab 1 AND	1
CH 1153 University Chemistry I Recitation	1
PH 1100 Physics by Inquiry I	1
MA 1160 Calculus with Technology I	4
UN 1015 Composition (OR UN 1025 Global Issues)	3
Total	14

Spring	
Course	Credit
CH 1160 University Chemistry II AND	3
CH 1161 University Chemistry Lab II. AND	1
CH 1163 University Chemistry II Recitation OR	1
MA 2160 Calculus with Technology II	4
PH 1200 Physics by Inquiry II	1
PH 2100 University Physics I – Mechanics	3
UN 1025 Global Issues (OR UN 1015 Composition)	3
Total	16

Second Year

Fall	
Course	Credit
CH 2130 PDFC 2: Career Planning	2
CH 2430 Mechanistic Organic Chemistry	3
CH 2411 Organic Chemistry Lab I	1
PH 2200 University Physics II – E & M	3
MA 2321 Elementary Linear Algebra	2
MA 3521 Elementary Differential Equations	2
General Education Goal 4: Critical & Creative Thinking (or	3
Goal 8)	
Total	16

Spring	
Course	Credit
CH 2440 Synthetic Organic Chemistry	3
CH 2421 Organic Chemistry Lab II	2
CH 2210 Quantitative Analysis	3
CH 2211 Quantitative Analysis Lab	2
MA 3160 Multivariable Calculus with Technology	4
General Education Goal 8: Social Responsibility & Ethical	3
Reasoning (or Goal 4)	
Total	17

Third Year

Fall

Course	Credit
CH 3510 Physical Chemistry I	3
CH 3511 Physical Chemistry Lab I	2
CH 4210 Instrumental Analysis	3
CH 4212 Instrumental Analysis Lab	2
CH 4710 Biomolecular Chemistry I	3
General Education HASS Distribution	3
Total	16

Fourth Year

Fall	
Course	Credit
CH 4310 Inorganic Chemistry I	3
CH 4311 Inorganic Chemistry Lab	2
** Major Approved Elective	3
Free Electives	9
Total	17

Spring	
Course	Credit
CH 3130 PDFC 3: Communication	1
CH 3520 Physical Chemistry II	3
CH 3521 Physical Chemistry Lab II	2
** Major Approved Elective	3
General Education HASS Distribution	6
Total	18

Spring	
Course	Credit
CH 4130 PDFC 4: Senior Seminar	2
Free Electives	9
General Education HASS Distribution	3
Total	14

Grand Total = 125 Credits

* For the Chemistry Concentrations (Secondary Education, Chemical Physics, Environmental, Biochemistry, and Polymers) additional courses are required to fulfill the degree in those options.

**Required Elective must be chosen from the specified Major Approved Electives list. CH 4990 Undergraduate Research is strongly recommended, but 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.