

B.S. Chemistry Degree (SCH) (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 1150 University Chemistry I AND	3
CH 1151 University Chemistry Lab 1 AND	1
CH 1153 University Chemistry I Recitation	1
CH 1130 PFDC 1: Orientation	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	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: Critical & Creative Thinking	3
Total	16

Spring

Course	Credit
CH 2440 Synthetic Organic Chemistry	3
CH 2421 Organic Chemistry Lab II	2
CH 2212 Quantitative Analysis	5
MA 3160 Multivariable Calculus with Technology	4
General Education: Social Responsibility & Ethical Reasoning	3
Total	17

Third Year

Fall

Course	Credit
CH 3510 Physical Chemistry I	3
CH 3511 Physical Chemistry Lab I	2
CH 4212 Instrumental Analysis	5
CH 4710 Biomolecular Chemistry I	3
General Education HASS	3
Total	16

Spring

Course	Credit
CH 3130 PDFC 3: Communication	1
CH 3520 Physical Chemistry II	3
CH 3521 Physical Chemistry Lab II	2
Major-Approved Electives Course	3
General Education HASS	6
Total	15

Fourth Year

Fall

Course	Credit
CH 4310 Inorganic Chemistry I	3
CH 4311 Inorganic Chemistry Lab	2
Free Electives Course	11
Total	16

Spring

Course	Credit
CH 4130 PDFC 4: Senior Seminar	2
Free Electives Course	6
Major-Approved Electives Course	4
General Education HASS	3
Total	15

Grand Total = 125 Credits

NOTES

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

CH 4990 Undergraduate Research is strongly recommended for some free elective credits.

Major-Approved Elective must be chosen from the specified Major Approved Electives list. Also note the ranges for Major-Approved Electives (6-7) and Free Electives (17-18) needed for degree. If you take the lower number for one you will take the higher number for the other to achieve the total course credits required for major.

3 Units of co-curricular activities are required

Revised 08/17/2020