B.S. Medicinal Chemistry

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 PDFC 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
BL 1400 Principles of Biology AND BL 1410 Principles of Biology Laboratory	4
PH 2200 University Physics II – E & M	3
General Educational: Critical & Creative Thinking	3
Total	**16**

Spring

Course	Credit
CH 2440 Synthetic Organic Chemistry	3
CH 2421 Organic Chemistry Lab II	2
CS 1121 Intro to Programming I	3
MA 3160 Multivariable Calculus with Technology	4
MA 2320 Elementary Linear Algebra	2
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 4710 Biomolecular Chemistry I	3
CH 4222 Bioanalytical Chemistry	5
Major-Approved Elective	3
Total	**16**

Spring

Course	Credit
CH 3130 PDFC 3: Communication	1
CH 3520 Physical Chemistry II AND	3
CH 3521 Physical Chemistry Lab II OR	2
CH 3540 Biophysical Chemistry AND	3
CH 3541 Biophysical Chemistry Lab	2
CH 4110 Pharmaceutical Chemistry: Drug Action	3
CH 4720 Biomolecular Chemistry II	3
CH 4721 Research Methods in Biomolecular Chemistry	3
General Education HASS	3
Total	**18**

Fourth Year

Fall

Course	Credit
CH 4120 Pharmaceutical Chemistry: Drug Design	3
MA 2720 Statistical Methods	4
General Education HASS Distribution	9
Total	**16**

Spring

Course	Credit
CH 4130 PDFC 4: Senior Seminar	2
CH 4412 Spectroscopy of Organic Chemistry	3
BL 4070 Environmental Toxicology	3
Free Electives	7
Total	**15**

Grand Total = 128 Credits

NOTES

Major-approved electives must be chosen from the specified Approved Electives list. CH4990 Undergraduate Research is strongly recommended.

3 Units of co-curricular activities are required.

Revised 05/11/2022