

Biochemistry (BCHM)

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 ENGL 1120 English Composition II	3
MATH 1610 Calculus I		4 MATH 1620 Calculus II	4
CHEM 1110 General Chemistry I¹		3 CHEM 1120 General Chemistry for Scientists and Engineers II¹	3
CHEM 1111 General Chemistry I Laboratory		1 CHEM 1121 General Chemistry II Laboratory	1
Core History		3 BIOL 1020 Principles of Biology	3
		BIOL 1021 Principles of Biology Laboratory	1
		14	15

Sophomore

Fall	Hours	Spring	Hours
CHEM 2070 Organic Chemistry I		3 CHEM 2080 Organic Chemistry II	3
CHEM 2071 Organic Chemistry I Laboratory		1 CHEM 2081 Organic Chemistry II Laboratory	1
PHYS 1600 Engineering Physics I		4 PHYS 1610 Engineering Physics II	4
MATH 2630 Calculus III		4 MATH 2650 Linear Differential Equations	3
CHEM 3050 Analytical Chemistry		3 Core Humanities	3
CHEM 3051 Analytical Chemistry Laboratory		1	
		16	14

Junior

Fall	Hours	Spring	Hours
CHEM 4070 Physical Chemistry I		3 CHEM 4080 Physical Chemistry II	3
CHEM 4071 Physical Chemistry I Laboratory		1 CHEM 4081 Physical Chemistry II Laboratory	1
BIOL 3200 General Microbiology		3 Core Literature	3
BIOL 3201 General Microbiology Laboratory		1 BCHE 5190 Biochemistry II	3
BCHE 5180 Biochemistry I		3 BCHE 5191 Biochemistry II Laboratory	1
BCHE 5181 Biochemistry I Laboratory		1 CHEM 3000 Chemical Literature	1
Elective		3 BIOL 3000 Genetics	3
		BIOL 3001 General Genetics Laboratory	1
		15	16

Senior

Fall	Hours	Spring	Hours
CHEM 4100 Inorganic Chemistry		3 CHEM 4130 Instrumental Analysis	3
CHEM 4101 Inorganic Chemistry Laboratory		1 CHEM 4131 Instrumental Analysis Laboratory	1
CHEM 4950 Undergraduate Seminar		1 Core Fine Arts	3
CHEM 4980 Undergraduate Research in Chemistry or 4920 Chemistry Internship²		3 Core Social Science or Humanities⁴	3
Core History or Literature ³		3 Core Social Science ¹	3
Core Social Science ¹		3 Elective	3

Total Hours: 120

¹ CHEM 1030/CHEM 1031 and CHEM 1040/CHEM 1041 sequence can substitute for CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121. See advisor for details.

² May take more CHEM 4920 or CHEM 4980 as additional elective hours.

³ Students must complete a sequence of EITHER History or Literature to graduate. Please select the second half of EITHER the History or Literature sequence that you began.

⁴ If a second LITERATURE sequence is chosen, this course must be a CORE SOCIAL SCIENCE. If a second HISTORY sequence is chosen, this course must be a CORE HUMANITIES.

⁵ This course must be taken the semester of graduation.