

Chemistry (CHEM)

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 Core Social Science	3
SCMH 1950 COSAM Major and Career Exploration		1	
	15		14

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
MATH 2630 Calculus III		4 MATH 2650 Linear Differential Equations	3
PHYS 1600 Engineering Physics I		4 PHYS 1610 Engineering Physics II	4
CHEM 3050 Analytical Chemistry		3 Core Literature	3
CHEM 3051 Analytical Chemistry Laboratory		1 Elective	1
	16		15

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
BCHE 5180 Biochemistry I		3 Core Social Science	3
BCHE 5181 Biochemistry I Laboratory		1 BCHE 5190 Biochemistry II	3
MATH 2660 Topics in Linear Algebra		3 BCHE 5191 Biochemistry II Laboratory	1
Elective		3 CHEM 3000 Chemical Literature	1
		Core History or Literature ²	3
	14		15

Senior

Fall	Hours	Spring	Hours
CHEM 4100 Inorganic Chemistry		3 CHEM 4110 Organometallics and Catalysis	3
CHEM 4101 Inorganic Chemistry Laboratory		1 CHEM 4980 Undergraduate Research in Chemistry or 4920 Chemistry Internship⁴	3
CHEM 5280 Computational Chemistry		4 Core Humanities	3
Core Fine Arts		3 CHEM 4950 Undergraduate Seminar	1
Core Social Science or Humanities ³		3 CHEM 4130 Instrumental Analysis	3
Elective		3 CHEM 4131 Instrumental Analysis Laboratory	1

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 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.
- ³ 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.
- ⁴ May take more CHEM 4920 or CHEM 4980 as additional elective hours.
- ⁵ This course must be taken the semester of graduation.