

BA Chemistry (CHMA)

This curriculum provides a strong background in chemistry while allowing students to specialize in areas of interest. It is especially well suited for students leaning towards medical sciences while allowing more flexibility than that allowed in the American Chemical Society approved biochemistry curriculum. The program allows for great versatility in the junior and senior years, allowing the curriculum to be tailored to individual goals. The curriculum prepares students for professional careers in chemistry or biochemistry and advanced degree programs in chemistry, biochemistry and medically related fields.

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
BIOL 1020 Principles of Biology		3 BIOL 1030 Organismal Biology	3
BIOL 1021 Principles of Biology Laboratory		1 BIOL 1031 Organismal Biology Laboratory	1
	15		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 1500 General Physics I		4 PHYS 1510 General Physics II	4
CHEM 3050 Analytical Chemistry		3 Core History	3
CHEM 3051 Analytical Chemistry Laboratory		1 COMM 1000 Public Speaking	3
Elective		4	
	16		14

Junior

Fall	Hours	Spring	Hours
BCHE 5180 Biochemistry I		3 CHEM 3000 Chemical Literature	1
BCHE 5181 Biochemistry I Laboratory		1 Foreign Language	4
CHEM 3160 Survey of Physical Chemistry		3 Core Social Science	3
Foreign Language		4 Core Fine Arts	3
Core Literature		3 Elective	4
	14		15

Senior

Fall	Hours	Spring	Hours
CHEM ELEC Chemistry Elective ²		4 CHEM Elective²	3
Core History or Literature ³		3 Core Social Science or Humanities ⁴	3
Core Social Science		3 Elective	9

Elective	6 UNIV 4AA0 Achieve the Creed ⁵	0
	16	15

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 Approved CHEM Electives include: BCHE 5190, BCHE 5191, CHEM 4100, CHEM 4101, CHEM 4110, CHEM 4111, CHEM 4130, CHEM 4131, CHEM 4920, or CHEM 4980. A maximum of 3 hours of CHEM 4920 or CHEM 4980 may be counted as a CHEM elective. Additional hours may be used as general elective.
- 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.