

Chemistry Minor

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Students must complete a year of general chemistry (or equivalent), a year of organic chemistry, two additional chemistry courses with associated laboratories, and one additional chemistry course (7 courses total). All course prerequisites and co-requisites apply¹. Biochemistry majors need to complete 2 CHM courses at the 3000 level or above that are not otherwise required for the biochemistry degree to fulfill the requirements for the Chemistry minor.

Program notes

- 1. Or with approval of the Chemistry Advisor.

Program: Chemistry

Type: Minor

Required Courses

Item #	Title	Credits
	General Chemistry Requirement	8
	Organic Chemistry Requirement	8
	CHM Elective & Lab	8
	Upper-division Chemistry Course	3

Category Descriptions

General Chemistry Requirement

Credits: 8

1 year of general chemistry (6 credits) & Lab (2 or more credits). Choose one sequence.

Item #	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1152	General Chemistry II	4
CHM 1104	General Chemistry Lab II	1
Item #	Title	Credits
CHM 1151	General Chemistry I	4
CHM 1103	General Chemistry Lab I	1
CHM 1156	General Chemistry II for Egr	4
Item #	Title	Credits
CHM 1311	Inorganic Chemistry I	3
CHM 1301	Inorganic Chemistry Lab I	2
CHM 1512	Quantitative Analysis	3
CHM 1502	Quant Anal Lab	2

Organic Chemistry Requirement

Credits: 8

Choose one sequence.

Item #	Title	Credits
CHM 2211	Organic Chemistry I	3
CHM 2201	Organic Chemistry Lab I	1
CHM 2212	Organic Chemistry II	3
CHM 2202	Organic Chemistry Lab II	1
Item #	Title	Credits
CHM 3211	Organic Chemistry I	3
CHM 3201	Organic Chemistry Lab I	2
CHM 3212	Organic Chemistry II	3
CHM 3202	Organic Chemistry Lab II	2

CHM Elective & Lab

Credits: 8

Additional Laboratory Chemistry requirement (choose two of the following lecture/lab combos)

Choice A

Item #	Title	Credits
CHM 3311	Inorganic Chem II	3
CHM 3301	Inorganic Chem Lab II	2

Choice B

Item #	Title	Credits
CHM 3413	Molecular Thermodynamics	3
CHM 3405	Physical Chem Lab II	2

Choice C

Item #	Title	Credits
CHM 4622	Biochemistry II:Metabolism	3
CHM 4604	Biochem Tech. and Pract II	1

Choice D

Only one of these two options can be used: CHM 3412 and 3404 OR CHM 3416 and 3402.

Item #	Title	Credits
CHM 3412	Quantum Chemistry	3
CHM 3404	Physical Chem Lab I	2
CHM 3416	Physical Chem for Engineers	3
CHM 3402	Physical Chem Lab II	1

Choice E

Only one of these two options can be used: CHM 3511 and 3501 OR CHM 3514 and 3503.

Item #	Title	Credits
CHM 3511	Instrumental Analysis	3
CHM 3501	Instrumental Analysis Lab	2
CHM 3514	Bioanalytical Chemistry	3
CHM 3503	Bioanalytical Chem Lab	1

Choice F

Only one of these two options can be used: CHM 4611 and 4601 OR CHM 4621 and 4603.

Item #	Title	Credits
CHM 4611	Survey of Biochemistry	3
CHM 4601	Survey Biochemistry Lab	1
CHM 4621	Biochemistry I: Structure	3
CHM 4603	Biochem Tech. and Pract.	1

Upper-division Chemistry Course

Credits: 3

One additional upper-division chemistry course (with approval of the Chemistry Advisor)

- One additional course with lab from other requirements.
- CHM 3417: Biophysical Chemistry*
- CHM 5633: Nanomaterials & Surface Science
- Any 4000 level course
- Any 7000 level or higher course (*EXCEPT* 7693 or 8662)

**Cannot be used in combination with other Physical Chemistry courses and laboratories.*