

CHEMISTRY, B.S.

The B.S. in chemistry degree program is fully approved by the American Chemical Society and is the best preparation for students planning to pursue graduate studies, or to pursue any of the career options previously listed.

Code	Title	Credits
General Education Requirement (http://catalog.niagara.edu/undergraduate/curriculum/foundation-courses/)		
PHY 121 & PHY 123L	General Physics and General Physics	4
MAT 111	Calculus I	4
MAT 112	Calculus II	4
Major Requirement		
CHE 111 & CHE 113L	General Chemistry I and General Chemistry Laboratory I	4
CHE 112 & CHE 114L	General Chemistry II and General Chemistry Laboratory II	4
CHE 221 & CHE 223L	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHE 222 & CHE 224L	Organic Chemistry II and Organic Chemistry Laboratory II	4
CHE 227 & CHE 229L	Analytical Chemistry and Analytical Chemistry Laboratory	4
CHE 242 & CHE 244L	Inorganic Chemistry and Inorganic Chemistry Laboratory	4
CHE 331 & CHE 333L	Physical Chemistry I and Physical Chemistry Laboratory I	4
CHE 332 & CHE 334L	Physical Chemistry II and Physical Chemistry Laboratory II	4
CHE 338 & CHE 340L	Instrumental Analysis and Instrumental Analysis Laboratory	4
CHE 345	Biochemistry I	3
CHE 467 & CHE 469	Career Seminar and Written and Oral Reports	3
CHE 449L & CHE 450L	Senior Research and Senior Research ²	4
Advanced chemistry electives (p. 1)		9
Advised elective		3
PHY 122 & PHY 124L	General Physics and General Physics	4
Total Credits		74

Advanced Chemistry Electives

Advanced chemistry electives should be chosen from the following list of courses:

Code	Title	Credits
CHE 350	Spec Topics:	4
CHE 435	Biophysical Chemistry	3
CHE 441	Physical Chemistry III: Advanced	3
CHE 443	Advanced Organic Chemistry	3
CHE 446	Physical Organic Chemistry	3
CHE 494	Chemistry Internship	6
CHE 495	Chemistry Internship	3
CHE 496	Chemistry Internship	3

¹ All Niagara University students entering as freshmen are required to take the one credit Niagara University Beginning seminar course (NUB 102 NU Beginnings) in addition to the 20 general education requirements.

² CHE 403 Honors Thesis I may be substituted for CHE 449L Senior Research, CHE 450L Senior Research. Ordinarily, the laboratory work will be taken at the same time that the student covers the related work in lecture.