

CHEMISTRY, BS - CERTIFIED BY THE AMERICAN CHEMICAL SOCIETY

to take additional chemistry courses beyond the 45 hour minimum requirement.

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 hours of General Education (<https://catalog.washburn.edu/undergraduate/programs-degrees-graduation-requirements/general-education-requirements/>), all requirements for a Bachelor of Science (<https://catalog.washburn.edu/undergraduate/college-arts-sciences/degrees/bachelor-science/>) degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.

Code	Title	Hours
Required Courses Inside Department ¹		
<i>Introductory</i>		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
<i>Foundation</i>		
CH 320	Analytical Chemistry	3
CH 340	Organic Chemistry I	3
CH 350	Biochemistry I	3
CH 381	Physical Chemistry I	3
CH 386	Inorganic Chemistry	3
<i>In Depth</i>		
CH 341	Organic Chemistry II	3
CH 346	Instrumental Analysis	2
CH 362	Spectroscopy	2
CH 371	Advanced Topics in Chemistry	1
CH 382	Physical Chemistry II	3
CH 391	Chemistry Seminar	1
<i>Laboratory</i>		
CH 321	Analytical Chemistry Lab	1
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
CH 345	Inorganic Chemistry Lab	2
CH 385	Physical Chemistry Lab	1
CH 390	Undergraduate Chemical Research	2
Subtotal		47
Required Courses Outside Department		
CM XXX	Computer programming language course	3
MA 151 & MA 152	Calculus & Analytic Geometry I and Calculus & Analytic Geometry II	10
PS 281 & PS 282	General Physics I and General Physics II	10
Subtotal		23
Total Hours		70

¹ At least 45 hours in the department are required, including the following courses and their prerequisites. Students are encouraged