

CHEMISTRY, BS - NOT CERTIFIED BY THE AMERICAN CHEMICAL SOCIETY

¹ At least 38 hours in the department are required, including the following courses and their prerequisites.

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.

This program serves as a second major for students with a first major in another science or mathematics.

Code	Title	Hours
Required Courses Inside Department ¹		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 320	Analytical Chemistry	3
CH 321	Analytical Chemistry Lab	1
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
Select two (or more) of the following:		3
CH 345	Inorganic Chemistry Lab	
CH 346	Instrumental Analysis	
CH 347	Physical Chemistry Concepts Lab	
CH 351	Biochemistry Lab	
Select two of the following:		6
CH 350	Biochemistry I	
CH 352	Biochemistry II	
CH 360	Descriptive Inorganic Chemistry	
CH 382	Physical Chemistry II	
CH 386	Inorganic Chemistry	
CH 380	Fundamentals of Physical Chemistry	3
or CH 381	Physical Chemistry I	
CH 390	Undergraduate Chemical Research	2
CH 391	Chemistry Seminar	1
Required Courses Outside Department		
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
Total Hours		49