

CHEMISTRY, BS - CERTIFIED BY THE AMERICAN CHEMICAL SOCIETY

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		
<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 331	Inorganic Chemistry	3
CH 340	Organic Chemistry I	3
CH 350	Biochemistry I	3
CH 381	Physical Chemistry I	3
<i>In-Depth</i>		
CH 326	Instrumental Methods In Forensic Analysis	3
CH 371	Topics in Materials Chemistry	1
CH 382	Physical Chemistry II	3
CH 3XX	300-level or higher Chemistry in-depth lecture courses ^{1,2}	5
<i>Laboratory</i>		
CH 321	Analytical Chemistry Lab	1
CH 327	Instrumental Methods in Forensic Analysis Lab	1
CH 342	Organic Chemistry Lab I	2
Select three credit hours:		3
CH 332	Inorganic Chemistry Lab	
CH 351	Biochemistry Lab I	
CH 385	Physical Chemistry Lab	
<i>Seminar/Capstone</i>		
CH 291	Professionalism in Science	1
Select two credit hours:		2
CH 390	Chemistry Research	
CH 393	Chemistry Internship	
CH 491	Chemistry Seminar	1
Subtotal		48
Required Courses Outside Department		
CM XXX	Computer programming language course	3-4
CN 150	Public Speaking	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		26-27
Total Hours		74-75

¹ Does not include CH 390 Undergraduate Chemical Research, CH 393 Internship, and CH 491 Chemistry Seminar.

² In-depth courses are identified in their course descriptions.