

APPLIED CHEMISTRY, BS

Degree Requirements

In addition to the requirements stated below, students must complete an additional 31-32 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 Math Gateway Course		
MA 116	College Algebra ¹	3
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 340	Organic Chemistry I	3
Select two of the following:		6
CH 331	Inorganic Chemistry	
CH 350	Biochemistry I	
CH 381	Physical Chemistry I	
<i>In-Depth</i>		
CH 326	Instrumental Methods In Forensic Analysis	3
CH 3XX	300-level or higher Chemistry courses ²	5
<i>Labs</i>		
CH 321	Analytical Chemistry Lab	1
CH 327	Instrumental Methods in Forensic Analysis Lab	1
CH 342	Organic Chemistry Lab I	2
Select two of the following:		3-4
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		44-45
Required Courses Outside Department		
CM XXX	Computer programming language course	3-4
CN 150	Public Speaking	3
MA 151	Calculus & Analytic Geometry I	5
MA 140	Statistics	3-5
or MA 152	Calculus & Analytic Geometry II	

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 68-72

¹ If student has already completed a different college math course, please discuss with your advisor.

² Does not include CH 390 Chemistry Research, CH 393 Chemistry Internship, and CH 491 Chemistry Seminar