

# BIOCHEMISTRY, BS

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## 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
<b>Required Courses Inside Department <sup>1</sup></b>		
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
CH 350	Biochemistry I	3
CH 351	Biochemistry Lab	2
CH 352	Biochemistry II	3
CH 353	Biochemistry Laboratory II	2
CH 381	Physical Chemistry I	3
CH 390	Undergraduate Chemical Research	2
CH 391	Chemistry Seminar	1
Subtotal		40
<b>Required Courses Outside Department</b>		
BI 192	General Cellular Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 353 & BI 354	Molecular Genetics and Molecular Biology Laboratory	6
CM 111	Introduction to Structured Programming	4
MA 151	Calculus & Analytic Geometry I	5
PS 281 & PS 282	General Physics I and General Physics II	10
Subtotal		38
<b>Total Hours</b>		<b>78</b>

<sup>1</sup> At least 40 hours in the department are required, including the following courses and their prerequisites.