

LABORATORY SCIENCE, AA

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 an Associate of Arts (<https://catalog.washburn.edu/undergraduate/college-arts-sciences/degrees/associate/>) degree, and any additional hours needed to reach the minimum 60 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		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 340	Organic Chemistry I	3
CH 342	Organic Chemistry Lab I	2
Subtotal		15
Select one of the following:		4-5
CH 320 & CH 321	Analytical Chemistry and Analytical Chemistry Lab	
CH 341 & CH 343	Organic Chemistry II and Organic Chemistry Lab II	
CH 350 & CH 351	Biochemistry I and Biochemistry Lab	
Subtotal		4-5
Required Courses Outside Department		
BI 301	General Microbiology	4
Select one laboratory course:		3-5
BI 194	General Organismal Biology	
BI 255	Human Physiology	
BI 275	Human Anatomy	
BI 325	Microbiology of Human Disease	
BI 333	General Genetics	
BI 354	Molecular Biology Laboratory	
Subtotal		7-9
Total Hours		26-29

Pre-Pharmacy

Students who are preparing for admission to a pharmacy school would complete 68 credits including the AA in Laboratory Science typically encompassing the following recommended courses. Contact the Pre-Pharmacy Advisor for variations in requirements that are pharmacy school dependent.

Code	Title	Hours
Recommended Courses Inside Department		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
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

Recommended Courses Outside Department		
AN 112	Cultural Anthropology	3
BI 192	General Cellular Biology	5
BI 250	Introduction to Human Anatomy	3
BI 255	Human Physiology	4
BI 301	General Microbiology	4
CN 150	Public Speaking	3
EN XXX	One literature course in English	3
MA 140	Statistics	3
MA 141	Applied Calculus I	3-5
or MA 151	Calculus & Analytic Geometry I	
One of the following:		5
PS 261	College Physics I ¹	
PS 281	General Physics I ²	
SO 100	Introduction to Sociology	3
Total Hours		59-61

¹ Requires a math course containing a trigonometry component such as MA 117 Trigonometry, MA 123 Pre-Calculus, or MA 151 Calculus & Analytic Geometry I

² Requires the prerequisite course MA 151 Calculus & Analytic Geometry I