

**Laboratory Science  
Associate of Arts (A.A.)  
2017-2018**

**Requirements for Major:** At least 19 credit hours in the department, including:

CH 151 Fundamentals of Chemistry I (5)
CH 152 Fundamentals of Chemistry II (5)
CH 340 Organic Chemistry I (3)
CH 342 Organic Chemistry Laboratory I (2)

*One course and correlated lab course selected from:*

CH 320 Analytical Chemistry (3) and CH 321 Analytical Chemistry Laboratory (1)
CH 341 Organic Chemistry II (3) and CH 343 Organic Chemistry Laboratory II (2)
CH 350 Biochemistry I (3) and CH 351 Biochemistry Laboratory I (2)

*12 credits - correlated Biology courses including:*

BI 102 General Cellular Biology (5)
BI 301 General Microbiology (4) (Prereq: BI 102 (5) and CH 151 (5))
One Biology Course with Lab chosen from the following (unless otherwise noted, prerequisite for lab course is BI 102 (5)):
BI 105 General Botany (4)
BI 110 General Zoology (4)
BI 255 Human Physiology (4)
BI 275 Human Anatomy (4)
BI 325 Microbiology of Human Diseases (5) (Prereq: BI 301 (4))
BI 333 General Genetics (4) (Prereq: BI 102 (5) and CH 151 (5))
BI 354 Molecular Biology Laboratory (3) (Prereq: BI 301 or BI 333 or BI 353)

*Notes*

Students preparing for admission to a pharmacy school should complete the following recommended courses while completing the AA in Laboratory Science (check with Pre-Pharmacy Advisor since requirements vary by Pharmacy school):
CH 151 Fundamentals of Chemistry I
CH 152 Fundamentals of Chemistry II
CH 340 Organic Chemistry I and CH 342 Organic Chemistry Laboratory I
CH 341 Organic Chemistry II and CH 343 Organic Chemistry Laboratory II
BI 102 General Cellular Biology
BI 250 Introduction to Human Anatomy
BI 255 Human Physiology
BI 301 General Microbiology
MA 140 Statistics
MA 151 Calculus and Analytic Geometry I
CN 150 Public Speaking
PS 261 College Physics I
AN 112 Cultural Anthropology
SO Introduction to Sociology
EN XXX – Literature Course

**General Education Distribution Requirements (AA):**

Humanities (6) (GEHU/GECPA) (2 disciplines)	Course Number	Social Sciences (6) (GESS) (2 disciplines)	Course Number	Natural Sciences/ Mathematics (6) (2 disciplines)	Course Number
CN 150 (3)		SO 100 (3)		BI 102 (5)	
EN 110/131/133/ 135/138/177/178 (3)		AN 112 (3)		MA 140 (3)	

**Core University/AA-Specific Requirements:**

WU 101 (3)* C or Better		Total Hours (62)	
EN 101 (3) C or Better		>= C Grade All Major and Correlated Courses	
MA 116 (3)** C or Better		>= 2.0 Overall Cumulative GPA	

*\*Students transferring with 24 or more credit hours completed at an accredited post-secondary institution (after graduating from High School) with a GPA of 2.0 or higher are exempt from this requirement*

*\*\*May be waived if the student successfully places into a higher-level mathematics course with an ACT score of 25 or higher and then successfully completes that course with a grade of C or higher or if a student presents an ACT score in mathematics of at least 28 (SAT of at least 640).*

**Sample 2-Year Schedule for Laboratory Science Major (Pre Pharmacy)  
Associate of Arts  
62 Hours**

Curriculum for students starting 2017-2018 Academic Year  
Students starting in different academic years should contact their advisor.

<b>Freshman</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CH 151 – Fundamentals of Chemistry I	5	CH 152 – Fundamentals of Chemistry II	5
BI 102 – General Cellular Biology	5	BI 255 – Human Physiology	4
EN 100 – Freshman Composition	3	MA 151 – Calculus and Analytic Geometry I	5
WU 101 – Washburn Experience	3	SO 100 – Introduction to Sociology	3
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>17</b>
<b>Sophomore</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CH 340 – Organic Chemistry I	3	CH 341 – Organic Chemistry II	3
CH 342 – Organic Chemistry I Lab	2	CH 343 – Organic Chemistry Lab II	2
BI 301 – General Microbiology	4	BI 250 – Introduction to Human Anatomy	3
EN XXX – Course in Literature	3	MA 140 – Statistics	3
PS 261 – College Physics I	5	AN 112 – Cultural Anthropology	3
Elective	1	CN 150 – Public Speaking	3
<b>TOTAL</b>	<b>18</b>		<b>17</b>

Please contact the Pre-Pharmacy Advisor to determine appropriate courses for the pharmacy program to which you plan on submitting your application.