

**MEDICAL LABORATORY SCIENCE**  
**Bachelor of Health Science (B.H.S.)**  
**2018-2019**

**Requirements for Major: 43 credit hours in the department, including:**

CL 407 Clinical Laboratory Operations
CL 408 Introduction to Clinical Hematology
CL 409 Introduction to Clinical Microbiology
CL 410 Introduction to Clinical Chemistry & Urinalysis
CL 411 Introduction to Clinical Immunohematology
CL 412 Clinical Laboratory Science Theory, Application & Correlation
CL 413 Clinical Endocrinology & Toxicology
CL 414 Clinical Chemistry and Urinalysis I
CL 415 Clinical Chemistry & Urinalysis II
CL 416 Clinical Hematology I
CL 417 Clinical Hematology II
CL 418 Clinical Microbiology I
CL 419 Clinical Microbiology II
CL 420 Clinical Immunology & Molecular Diagnostics
CL 422 Clinical Immunohematology I
CL 423 Clinical Immunohematology II
CL 430 Clinical Laboratory Management I
CL 431 Clinical Laboratory Management II
CL 442 Clinical Immunohematology Laboratory Practicum I
CL 443 Clinical Immunohematology Laboratory Practicum II
CL 444 Clinical Core Laboratory Practicum I
CL 445 Clinical Core Laboratory Practicum II
CL 448 Clinical Microbiology Laboratory Practicum I
CL 449 Clinical Microbiology Laboratory Practicum II

**Correlated courses (36 credit hours) – In consultation with a departmental advisor, select:**

BI 102 Cell Biology
BI 255 Physiology
BI 301 General Microbiology
BI 333 General Genetics OR
BI 354 Molecular Biology Lab
BI 362 Immunology
CH 151 Fundamentals of Chemistry
CH 152 Fund. Of Chemistry
CH 340 Organic Chemistry I
<b>Choose one additional chemistry class from below:</b>
CH 341 Organic Chemistry II
CH 320 Analytical Chemistry
CH 350 Biochemistry

**General Education Requirements (BHS):**

Humanities (9) (GEHU/GECPA) (Max 6 hours/ discipline)	Course Number	Social Sciences (9) (GESS) (Max 6 hours/ discipline)	Course Number	Natural Sciences/ Mathematics (9) (GENS) (Max 8 Hours or 2 Courses/ Discipline)	Course Number
Fine Arts (3)		Soc. Science 1 (3)		Nat. Science 1 (3-5)	
Humanities 1 (3)		Soc. Science 2 (3)		Nat. Science 2 (3-5)	
Humanities 2 (3)		Soc. Science 3 (3)		Nat. Science 3 (3-5)	

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

WU 101 (3)*		Total Hours (120)	
EN 101 (3)		Upper Division (300 and above) (45)	
EN 300 (3)		>= 2.0 Major Cumulative GPA	
MA 116 (3)**		>= 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 student successfully completes a higher-level mathematics 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 4-Year Schedule for Medical Laboratory Science Major  
Bachelor of Health Science  
120 Hours**

Curriculum for students starting 2018-2019 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	5	CH 152 – Fundamentals of Chemistry II	5
MA 116 – College Algebra	3	BI 102 – General Cellular Biology	5
WU 101 – The Washburn Experience	3	Soc. Sci. General Education	3
EN 101 – First Year Writing	3		
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>13</b>
<b>Sophomore</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CH 340 – Organic Chemistry	3	Chemistry Elective (CH 320, CH 341, or CH 350)	3
BI 255 – Human Physiology	4	BI 301 – General Microbiology	4
MA 140 – Statistics	3	Soc. Sci. General Education	3
CN 150 – Public Speaking	3	AR/MU/TH General Education	3
<b>TOTAL</b>	<b>13</b>	<b>TOTAL</b>	<b>13</b>
<b>Junior</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BI 333 – General Genetics	4	BI 362 – Immunology	3
EN 300 – Advanced College Writing	3	AL 320 – Human Disease (elective)	3
AL 101 – Fd. of Healthcare (elective)	3	Soc. Sci General Education	3
Upper/Lower Div. Electives	2	Humanities General Education	3
<b>TOTAL</b>	<b>12</b>	<b>TOTAL</b>	<b>12</b>
<b>Senior</b>			
<b>May – August (Student Laboratory)</b>		<b>August – November (Clinical Rotation I)</b>	
CL 407 – Clin Lab Operations	2	CL 413 – Clin. Endocrinology & Toxicology	1
CL 408 – Intro To Clinical Hematology	2	CL 414 – Clinical Chemistry I & Urinalysis I	2
CL 409 – Intro to Clinical Microbiology	2	CL 416 – Clinical Hematology I	2
CL 410 – Intro to Clin. Chem. Urinalysis	1	CL 418 – Clinical Microbiology I	2
CL 411 – Intro to Clinical Immunohematology I	1	CL 420 – Clin. Immunology & Molecular Diagnostics	2
		CL 422 – Clinical Immunohematology I	2
		CL 430 – Clinical Laboratory Management I	2
		CL 442 – Clinical Immunohematology Lab Practicum I	1
		CL 444 – Clinical Core Lab Practicum I	1
		CL 448 – Clin. Microbiology Lab Practicum I	1
<b>TOTAL</b>	<b>8</b>	<b>TOTAL</b>	<b>16</b>

<b>November – May (Clinical Rotation II)</b>			
CL 412 – Clin. Lab. Science Theory, Application & Correlation	5		
CL 415 – Clin. Chemistry & Urinalysis II	2		
CL 417 – Clinical Hematology II	2		
CL 419 – Clinical Microbiology II	2		
CL 423 – Clinical Immunohematology II	2		
CL 431 – Clin. Lab. Management II	3		
CL 443 - Clinical Immunohematology Laboratory Practicum II	1		
CL 445 – Clinical Core Laboratory Practicum II	1		
CL 449 – Clin. Microbiology Practicum II	1		
<b>TOTAL</b>	<b>19</b>		