

MEDICAL LABORATORY SCIENCE
Bachelor of Health Science (B.H.S.)
2024-2025

Required Courses Inside Department: 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

Required Courses Outside Department – 36 credit hours selected in consultation with advisor:

BI 192 General Cellular Biology
BI 255 Physiology or BI 230 Intro to Human Physiology*
BI 301 General Microbiology
BI 333 General Genetics OR BI 354 Molecular Biology Lab
BI 362 Immunology
CH 151 Fundamentals of Chemistry I
CH 152 Fundamentals of Chemistry II
CH 340 Organic Chemistry I
Choose one additional chemistry class from below:
CH 341 Organic Chemistry II
CH 320 Analytical Chemistry
CH 350 Biochemistry

General education requirements- 34-35 hours:		
<i>Systemwide General Education (SGE)</i>	<i>Course</i>	<i>Planned/Completed Semester</i>
English (6 hrs)		
Communications (3 hrs)		
Mathematics (3 hrs)		
Natural & Physical Sciences (4-5 hrs)	<i>CH 151</i>	
Arts & Humanities (6 hrs)**		
Social & Behavioral Sciences (6 hrs)**		
Inclusion & Belonging (3 hrs)		
Scientific Reasoning (3 hrs)	<i>BI 192</i>	



Medical Laboratory Science—BHS

First Year					
Fall			Spring		
Number	Title	Hours	Number	Title	Hours
EN 101	Introductory College Writing (SGE) ^{010,a}	3	-----	Social & Behavioral Sciences (SGE) ⁰⁵⁰	3
MA 116	College Algebra (SGE) ^{030,a}	3	-----	Arts & Humanities (SGE) ⁰⁶⁰	3
CH 151	Fundamentals of Chemistry I ^{a,d}	5	-----	Natural & Physical Science (SGE) ⁰⁴⁰	4-5
WU 101	Washburn Experience ^a	3	CH 152	Fundamentals of Chemistry II ^{a,d}	5
Total Hours		14	Total Hours		15-16

Second Year					
Fall			Spring		
Number	Title	Hours	Number	Title	Hours
EN 200	Intermediate College Writing (SGE) ^{010,a}	3	-----	Arts & Humanities (SGE) ⁰⁶⁰	3
-----	Communications (SGE) ⁰²⁰	3	BI 2XX	Intro to Human Physiology or Human Physiology ^a	3-4
BI 192	General Cellular Biology ^{a,b,d}	5	BI 301	General Microbiology ^a	4
CH 340	Organic Chemistry I ^{a,b}	3	CH 3XX	Organic Chemistry II, Biochemistry, or Analytical Chemistry ^a	3
Total Hours		14	Total Hours		13-14

Third Year					
Fall			Spring		
Number	Title	Hours	Number	Title	Hours
-----	Social & Behavioral Sciences (SGE) ⁰⁵⁰	3	-----	Inclusion & Belonging (SGE) ⁰⁷⁰	3
BI 3XX	General Genetics or Molecular Biology Laboratory ^a	3-4	BI 362	Immunology ^{a,c}	3
EN 3XX	Advanced College Writing or Scientific & Technical Writing ^a	3	-----	Other University Course	3
-----	Scientific Reasoning (SGE) ⁰⁷⁰	3	-----	Other University Course	3
Total Hours		12-13	Total Hours		12

Fourth Year		
Summer (Student Laboratory in Omaha, NE)		
Number	Title	Hours
CL 407	Clinical Lab Operations ^a	2
CL 408	Intro to Clinical Hematology ^a	2
CL 409	Intro to Clinical Microbiology ^a	2
CL 410	Intro to Clinical Chemical Urinalysis ^a	1
CL 411	Intro to Clinical Immunohematology ^a	1
Total Hours		8

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^a Grade of "C" or higher is required

^b Offered in Fall semester only

^c Offered in Spring semester only

^d Course can satisfy general education requirement; discuss with advisor

Systemwide General Education (SGE) Key

010 English

020 Communications

030 Math & Statistics

040 Natural & Physical Sciences

050 Social & Behavioral Sciences

060 Arts & Humanities

070 Institutionally Designated



Medical Laboratory Science—BHS

Fourth Year (cont.)					
Fall (Clinical Rotation I)			Spring (Clinical Rotation II)		
Number	Title	Hours	Number	Title	Hours
CL 413	Clinical Endocrinology & Toxicology ^a	1	CL 412	Clinical Lab Science Theory, Application, & Correlation ^a	5
CL 414	Clinical Chemistry I & Urinalysis I ^a	2	CL 415	Clinical Chemistry & Urinalysis II ^a	2
CL 416	Clinical Hematology I ^a	2	CL 417	Clinical Hematology II ^a	2
CL 418	Clinical Microbiology I ^a	2	CL 419	Clinical Microbiology II ^a	2
CL 420	Clinical Immunology & Molecular Diagnostics ^a	2	CL 423	Clinical Immunohematology II ^a	2
CL 422	Clinical Immunohematology I ^a	2	CL 431	Clinical Laboratory Management II ^a	3
CL 430	Clinical Laboratory Management I ^a	2	CL 443	Clinical Immunohematology Lab Practicum II ^a	1
CL 442	Clinical Immunohematology Lab Practicum I ^a	1	CL 445	Clinical Core Laboratory Practicum II ^a	1
CL 444	Clinical Core Lab Practicum I ^a	1	CL 449	Clinical Microbiology Practicum II ^a	1
CL 448	Clinical Microbiology Lab Practicum I ^a	1			
Total Hours		16	Total Hours		19

^a Grade of "C" or higher is required

^b Offered in Fall semester only

^c Offered in Spring semester only

Systemwide General Education (SGE) Key

010 English

020 Communications

030 Math & Statistics

040 Natural & Physical Sciences

050 Social & Behavioral Sciences

060 Arts & Humanities

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