

BIOMEDICAL AND CLINICAL SCIENCES – Medical Laboratory Science Concentration

Four – Year Curriculum | 2025-2026

FIRST YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Spring Semester</u>	<u>Credits</u>
NH 1500 - Approaches to Health	1	BHSC 1980 – Intro to Scientific Writing (WIL2)	3
HSCI 1100 – Introduction to Public Health (S1)	3	BHSC 1340 – Human Cell Biology (N2)	4
ENGS 1001 – Written Expression (WIL2)	3	CHEM 1450 – General Chemistry II (N2)	4
CHEM 1400 – General Chemistry I (N2)	4	General Education Elective	6
MATH 1212 – Fundamentals of Calc I (MA)	3		
<i>Total Credits:</i>	14	<i>Total Credits:</i>	17

SECOND YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Spring Semester</u>	<u>Credits</u>
ANPS 1190 – Ugr Human Anatomy & Phys I	4	ANPS 1200 – Ugr Human Anatomy & Phys II	4
STAT 1110 – Elements of Statistics (QD) or STAT 1410 – Basic Statistical Methods I (QD)	3	CHEM 1580 – Intro to Organic Chemistry	4
MMG 2010 – Microbiology & Infectious Disease	4	General Education Elective	3
NH 2200 – Health Care Ethics	3	Elective	3
General Education Elective	3		
<i>Total Credits:</i>	17	<i>Total Credits:</i>	14

THIRD YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Spring Semester</u>	<u>Credits</u>
BHSC 2970 – Leadership and Mgmt in Health Care ¹	3	MMG 3220 – Adv Medical Microbiology ¹	4
BIOC 3001 – Fundamentals of Biochemistry	3	BHSC 3420 – Immunology or MMG 2320 – Immunology ¹	3
PATH 2010 – Intro to Human Disease	3	BHSC 3440 – Immunology Lab ¹	1
MLS 3100 – Clinical Chemistry I ¹	4	MLS 3110 – Clinical Chemistry II ¹	3
Elective	2	Elective	3
<i>Total Credits:</i>	15	<i>Total Credits:</i>	14

FOURTH YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Winter Session</u>	<u>Credits</u>
BHSC 3810 – Applied Molecular Bio ¹	3	MLS 3910 – Foundations of Interprofessionalism ^{1,2}	1
BHSC 3820 – Applied Molecular Bio Lab ¹	1	<u>Spring Semester</u>	<u>Credits</u>
MLS 3200 – Hematology ¹	3	MLS 3900 – Topics in Medical Laboratory Science ¹	2
MLS 3220 – Hematology Lab ¹	1	MLS 3192 – Clinical Practicum: Chemistry ¹	3
MLS 3300 – Clinical Microbiology II ¹	3	MLS 3292 – Clinical Practicum: Hematology ¹	3
MLS 3400 – Immunohematology ¹	4	MLS 3392 – Clinical Practicum: Microbiology ¹	3
		MLS 3492 – Clinical Practicum: Immunohematology ¹	3
<i>Total Credits:</i>	15	<i>Total Credits:</i>	15

NOTES: ¹Professional Course. This plan of study is designed to meet the requirements for the Biomedical and Clinical Science major's medical laboratory science concentration. Changes should be reviewed with a student's academic advisor. A minimum of 121 semester credit hours, minimum GPA per program requirement, and fulfillment of the University's Catamount Core are required for graduation. ²MLS 3910 is an online course. This is an advising tool to help with schedule planning. Please refer to the [UVM Catalogue](#) for full program requirements and [CNHS Undergraduate Handbook](#) for academic policies.