

MEDICAL LABORATORY SCIENCE – Public Health Concentration | Four – Year Curriculum | 2024-2025

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
ENGL 1001 – Written Expression (WIL1)	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	Free 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 Hlth Care ¹	3	MMG 3220 – Adv Medical Microbiology ¹	4
BIOC 3001 – Fundamentals of Biochemistry	3	BHSC 3420 – Immunology or MMG 3230 – Immunology ¹	3
PATH 2010 – Intro to Human Disease	3	BHSC 3440 – Immunology Lab ¹	1
STAT 3000 – Medical Biostat & Epidemiology	3	BCOR 2300 – Genetics	3
Free Elective	3	HSCI 2400 – Hlth Care and PH System or HSCI 3100 – Epi, PH & Inf Disease	3
<i>Total Credits:</i>	15	<i>Total Credits:</i>	14

FOURTH YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Spring Semester</u>	<u>Credits</u>
BHSC 3810 – Applied Molecular Bio ¹	3	MLS 3894 – Public Health Practicum	12
BHSC 3820 – Applied Molecular Bio Lab ¹	1	Approved Elective ³ or	3
NFS 3203 – Food Microbiology	4	MLS 3300 Clinical Practicum: Microbiology ^{1,2}	
MLS 3300 – Clinical Microbiology II ¹	3		
Approved Elective ³	4		
<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 Medical Laboratory Science major's public health laboratory science concentration. Changes should be reviewed with a student's academic advisor. ²MLS 3300: Clinical Practicum: Microbiology must be approved by the MLS program director. ³For the public health science concentration, students must take 6 credits of department-approved electives in the area of Public Health. Students must obtain a list of approved elective courses for each respective academic year from their academic advisor. A minimum of 121 semester credit hours, minimum GPA of 2.30, and fulfillment of the University Catamount Core are required for graduation.

This is an advising tool to help with schedule planning. Please refer to the [UVM Catalogue](#) for full Catamount Core and program requirements and the [CNHS Undergraduate Handbook](#) for academic policies.