

BIOMEDICAL AND CLINICAL SCIENCES – Applied Biomedical 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	Gen Ed – AH1, AH2 with D1, D2 or SU	6
MATH 1212 – Fundamentals of Calc I (MA)	3		
<i>Total Credits:</i>	<i>14</i>	<i>Total Credits:</i>	<i>17</i>

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
MLS 2010 – Medical Diagnostic Techniques ¹	3	CHEM 1580 – Intro to Organic Chemistry	4
MMG 2010 – Microbiology & Infectious Disease	4	STAT 1110 – Elements of Statistics (QD) <i>or</i>	3
NH 2200 – Health Care Ethics	3	STAT 1410 – Basic Statistical Methods I (QD)	
Gen Ed – AH1, AH2 with D1, D2 or SU	3	Gen Ed – AH1, AH2 with D1, D2 or SU	3
		Elective	3
<i>Total Credits:</i>	<i>17</i>	<i>Total Credits:</i>	<i>17</i>

THIRD YEAR

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

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	HSCI 3400 – Writing for Health Professions	3
MLS 3300 – Clinical Microbiology II ¹	3	MLS 3XXX – Applied Experience ¹ <i>or</i>	6
Lab Course ²	1	MLS 3995 – Undergraduate Research ¹	
Elective	6	Elective	3
<i>Total Credits:</i>	<i>15</i>	<i>Total Credits:</i>	<i>15</i>

NOTES: ¹Professional Course. This plan of study is designed to meet the requirements for the Biomedical and Clinical Science major's applied biomedical 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.