

# BIOMEDICAL AND CLINICAL SCIENCES – Public Health 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	<b>General Education Elective</b>	6
MATH 1212 – Fundamentals of Calc I (MA)	3		
<i>Total Credits:</i>	<b>14</b>	<i>Total Credits:</i>	<b>17</b>

### 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) <b>or</b> STAT 1410 – Basic Statistical Methods I (QD)	3	CHEM 1580 – Intro to Organic Chemistry	4
MMG 2010 – Microbiology & Infectious Disease	4	<b>General Education Elective</b>	3
NH 2200 – Health Care Ethics	3	Elective	3
<b>General Education Elective</b>	3		
<i>Total Credits:</i>	<b>17</b>	<i>Total Credits:</i>	<b>14</b>

### THIRD YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Spring Semester</u>	<u>Credits</u>
BHSC 2970 – Leadership and Mgmt in Hlth Care <sup>1</sup>	3	MMG 3220 – Adv Medical Microbiology <sup>1</sup>	4
BIOC 3001 – Fundamentals of Biochemistry	3	BHSC 3420 – Immunology <b>or</b> MMG 2320 – Immunology <sup>1</sup>	3
PATH 2010 – Intro to Human Disease	3	BHSC 3440 – Immunology Lab <sup>1</sup>	1
STAT 3000 – Medical Biostat & Epidemiology	3	BCOR 2300 – Genetics	3
Elective	3	HSCI 2400 – Hlth Care and PH System US <b>or</b> HSCI 3100 – Epi, Public Health & Inf Disease	3
<i>Total Credits:</i>	<b>15</b>	<i>Total Credits:</i>	<b>14</b>

### FOURTH YEAR

<u>Fall Semester</u>	<u>Credits</u>	<u>Spring Semester</u>	<u>Credits</u>
BHSC 3810 – Applied Molecular Bio <sup>1</sup>	3	MLS 3894 – Public Health Practicum	12
BHSC 3820 – Applied Molecular Bio Lab <sup>1</sup>	1	MLS Approved Elective <sup>3</sup> <b>or</b> MLS 3300 Clinical Practicum: Microbiology <sup>1,2</sup>	3
NFS 3203 – Food Microbiology	4		
MLS 3300 – Clinical Microbiology II <sup>1</sup>	3		
MLS Approved Elective <sup>3</sup>	4		
<i>Total Credits:</i>	<b>15</b>	<i>Total Credits:</i>	<b>15</b>

**NOTES:** <sup>1</sup>Professional Course. This plan of study is designed to meet the requirements for the Biomedical and Clinical Science major's public health laboratory science concentration. Changes should be reviewed with a student's academic advisor. <sup>2</sup>MLS 3300: Clinical Practicum: Microbiology must be approved by the MLS program director. <sup>3</sup>For 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 per program requirement, and fulfillment of the University's Catamount Core are required for graduation.