

University of New Haven

Medical Laboratory Science Undergraduate Student Handbook

2026-2027 Academic Year

REVISIONS

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University of
New Haven

SCHOOL OF
HEALTH SCIENCES

Medical Laboratory
Science Program

Contents

INTRODUCTION	5
Purpose of the MLS Student Handbook	5
Introduction to the School of Health Sciences	5
Mission.....	5
Vision	5
Introduction to the UNEWHAVEN BS Medical Laboratory Science Program	6
PROGRAM ACCREDITATION	7
OVERVIEW OF THE PROFESSION	8
NAACLS Description of Entry Level Competencies of the Medical Laboratory Scientist.....	8
American Society for Clinical Laboratory Science (ASCLS) – Code of Ethics	10
ASCLS Pledge to the Profession.....	11
UNEWHAVEN MLS PROGRAM OVERVIEW	12
VISION	12
UNewHaven MLS Program Objectives	12
Program Learning Goals.....	12
Program Learning Outcomes	13
Roles and Responsibilities	13
Program Description	14
ADMISSION REQUIREMENTS	16
PROGRAM REQUIREMENTS.....	17
University Core Curriculum.....	17
General Policies in the School of Health Sciences.....	17
Program Curriculum	17
Additional Requirements.....	18
CastleBranch Fees.....	18
Background Checks, Drug Screens, and Immunizations.....	18
Exposure to Bloodborne Pathogens	19
Technical Standards.....	19
Tuition & Fees.....	19
Medical Requirements.....	19
Health Insurance.....	20

Professional Liability Insurance	20
Classroom Supplies & Expectations	20
Grading Policy.....	21
Grading System.....	22
Academic Standing	23
STUDENT ADVISING AND GUIDANCE	24
Academic Probation and Suspension.....	24
DISMISSAL FROM THE MLS PROGRAM:.....	25
MLS Academic Standards Committee.....	25
Student Disciplinary Warnings.....	26
Student Dismissal from the MLS Program	26
Appeal from Program Dismissal.....	26
Program Re-entry	27
TECHNICAL STANDARDS/ESSENTIAL FUNCTIONS	28
SHS Policy on Technical Standards/Essential Functions.....	28
MLS Program Technical Standards/Essential Functions.....	28
Professional skills:.....	28
Communication skills:.....	29
Technical skills:	29
CLINICAL PRACTICUM	30
Clinical Site Information	30
Current List of Clinical Facilities:.....	30
CERTIFICATION EXAMS	31
Eligibility	31
Application Form and Fees	31
State Licensures	31
Certification Exam Schedule	31
Student Responsibility	31
OPERATIONAL POLICIES.....	32
Equal Opportunity and Non-Discrimination Policies.....	32
Student Accessibility Resources.....	32
PROGRAM CLOSURE TEACH OUT PLAN	33
Prospective students:	33
Current students:.....	33

PROFESSIONAL MEMBERSHIPS.....	34
APPENDIX A – Admission Criteria and Procedures	35
APPENDIX B – Acknowledgement of Program Requirements	37
Professional Skills	37
Communication Skills.....	37
Technical Skills	37
Student Acknowledgement of Technical Standards/Essential Functions.....	38
MLS Program Academic Commitment.....	39
MLS Program HIPAA Compliance Policy.....	40
HIPAA Privacy Rule.....	40
Best Practices for Safeguarding PHI	41
De-Identifying PHI	41
APPENDIX C – Rotation-Specific Policies	44
APPENDIX D – MLSC Course Descriptions and Major Map.....	45
BS MLS Program Course Map – 2026-2027 Catalog Year.....	50
APPENDIX E – Program Faculty	51

INTRODUCTION

Purpose of the MLS Student Handbook

The purpose of the Student Handbook is to bring together all the various policies and procedures that specifically apply for students in the University of New Haven's (UNewHaven) Medical Laboratory Sciences (MLS) Program. Please refer to the [University of New Haven Student Handbook](#) for general University policies. This MLS handbook does not replace any official University policy, publication, or procedure. All students must be familiar with and follow all rules and regulations of the University.

The student is responsible for completing all courses necessary to successfully satisfy the requirements of the Medical Laboratory Science Program and completing all forms, applications, and University requirements for graduation. The Medical Laboratory Science Program cannot and will not take responsibility for the student meeting all requirements and deadlines.

The policies, procedures, and program requirements outlined in this handbook are in effect as of Fall 2026 (**latest update: 2026-2027 academic year**). Entering students are responsible for program requirements in effect at the time of initial enrollment. Continuing students are responsible for making themselves aware of the current program requirements and policies and should raise questions to the program director regarding any changes in program requirements or policies that may negatively affect their progress through the program. Policies and procedures are subject to change at any time and major changes are communicated to all Medical Laboratory Sciences students upon approval by the MLS faculty, university administration, and/or the MLS program advisory board.

Note: *The content of the MLS Student Handbook may change at any time. The department faculty reserves the right to make changes and give notice of such as deemed necessary. The most up-to-date version of the MLS Student Handbook can be found here: [UNH MLS Student Handbook](#)*

Introduction to the School of Health Sciences

The School of Health Sciences (SHS) at the University of New Haven is a regional destination and nationally recognized provider of quality health professions education. The School of Health Sciences at the University of New Haven prepares students to develop the competencies necessary to be a successful healthcare professional in the 21st century. The signature of a University of New Haven School of Health Sciences education is our commitment to competency-based education assessed through hands-on learning experiences in simulated and real-world healthcare settings. Students learn and grow through health career exploration, interprofessional education, and hands-on experiences. Our curriculum is focused on healthcare innovation, systems thinking, and using evidence-based approaches to solve today's biggest challenges in healthcare which gives students the tools to succeed in today's complex healthcare environment.

Mission

The School of Health Sciences' mission is to **educate competent, caring health professionals** by delivering innovative, interdisciplinary healthcare education and services.

Vision

The School of Health Sciences aims to become a **regionally and nationally recognized** provider of health education and services at the **forefront of health professional education for the 21st century**.

Introduction to the UNewHaven BS Medical Laboratory Science Program

<https://www.newhaven.edu/health-sciences/undergraduate-programs/medical-laboratory-science/>

In keeping with the university mission statement, the Medical Laboratory Science (MLS) program is a professional program that serves individuals who are seeking healthcare careers that develop their naturally scientific, analytical, and curious nature. The curriculum consists of basic science, general education, and profession-specific courses that include experiential, collaborative, and discovery-based learning.

The UNewHaven MLS program was first developed 2018 in response to both the local and national shortage of medical laboratory scientists and the request of multiple local area hospitals and health systems that sought solutions to the high vacancy rates in their medical laboratories. With the support of the community, the MLS program seeks to contribute academically prepared graduates with entry-level technical competency and professional behaviors, as a solution to the national shortage of clinical laboratory professionals.

Medical Laboratory Science continues to be an in-demand profession for graduates. While the Medical Laboratory Science field is projected to grow by only 2% between 2024 and 2034 ([US Bureau of Labor Statistics](#)), the number of unfilled positions at a majority of clinical laboratories demonstrates the continued need for properly-trained laboratory professionals. The most recently published [wage survey](#), conducted by the American Society for Clinical Pathology, shows salary increases, with an average hourly rate (across all experience levels) for MLS in the northeastern US of almost \$40/hour. The sophistication, complexity, and volume of medical laboratory tests also continues to grow. Although automation of many medical laboratory tasks has taken place, there is still a strong need for graduates who have the analytical, practical, and clinical knowledge to effectively work in and manage clinical laboratories.

PROGRAM ACCREDITATION

This program is **fully accredited** by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), awarded in April 2023 for a period of 5 years.



National Accrediting Agency for Clinical Laboratory Sciences

5600 N. River Rd, Suite 720

Rosemont IL 60018-5119

phone: (773) 714-8880

email: info@naacls.org

OVERVIEW OF THE PROFESSION

There are currently over 300,000 medical laboratory scientists (MLS) [*also referred to as clinical laboratory scientists (CLS) or medical technologists (MT)*] in the United States, making it one of the largest employers in healthcare. Laboratory scientists play a significant role in the diagnosis, treatment, and management of patients and they perform complex testing using sophisticated instruments to detect diseases and monitor treatment.

NAACLS Description of the Medical Laboratory Scientist profession

The medical laboratory scientist is qualified by academic and applied science education to provide service and research in medical laboratory science and related areas in rapidly changing and dynamic healthcare delivery systems. Medical laboratory scientists perform, develop, evaluate, correlate and assure accuracy and validity of laboratory information; direct and supervise medical laboratory resources and operations; and collaborate in the diagnosis and treatment of patients. The medical laboratory scientist has diverse and multi-level functions in the principles, methodologies and performance of assays; problem-solving; troubleshooting techniques; interpretation and evaluation of clinical procedures and results; statistical approaches to data evaluation; principles and practices of quality assurance/quality improvement; and continuous assessment of laboratory services for all major areas practiced in the contemporary clinical laboratory.

Medical laboratory scientists possess the skills necessary for financial, operations, marketing, and human resource management and leadership of the clinical laboratory.

Medical laboratory scientists practice independently and collaboratively, being responsible for their own actions, as defined by the profession. They have the requisite knowledge and skills to educate laboratory professionals, other health care professionals, and others in laboratory practice as well as the public.

The ability to relate to people, a capacity for calm and reasoned judgment and a demonstration of commitment to the patient are essential qualities. Communications skills extend to consultative interactions with members of the healthcare team, external relations, customer service and patient education.

Medical laboratory scientists demonstrate ethical and moral attitudes and principles that are necessary for gaining and maintaining the confidence of patients, professional associates, and the community.

NAACLS Description of Entry Level Competencies of the Medical Laboratory Scientist

At entry-level, the medical laboratory scientist will possess the entry-level competencies necessary to perform the full range of medical laboratory tests in areas such as Clinical Chemistry, Hematology/Hemostasis, Immunology, Immunohematology/Transfusion medicine, Microbiology, Urine and Body Fluid Analysis and Laboratory Operations, and other emerging diagnostics, and will play a role in the development and evaluation of test systems and interpretive algorithms.

The medical laboratory scientist will have diverse responsibilities in areas of analysis and clinical decision-making, regulatory compliance with applicable regulations, education, and quality assurance/performance improvement wherever laboratory testing is researched, developed or performed.

At career entry-level, the medical laboratory scientist will have the following professional competencies. They will have the ability to:

A. Professional Behaviors and Communication

- Demonstrate professional and ethical behavior along with effective interpersonal communication skills when engaging with various stakeholders.
- Establish effective interprofessional working relationships with other health care professionals, demonstrating comprehension of and respect for their roles and patient welfare.
- Recognize and appreciate the importance of engaging with an inclusive workforce through collaboration.
- Value and advocate for a workplace environment that fosters inclusivity, diversity, equity, and accessibility.

B. Safety and Compliance

- Comply with government regulations and accreditation standards relevant to the respective discipline.
- Adhere to prescribed protocols for overall laboratory safety, biohazard containment, and waste disposal.
- Implement quality assurance principles to ensure the validity and accuracy of laboratory-generated data.

C. Education and Research

- Acknowledge and respond to individual requirements for continuing education and development to foster growth and maintain professional competence.
- Provide instruction to users of laboratory services regarding appropriate procedures, test utilization and interpretation.
- Evaluate clinical research studies and data sets to assess applicability and validity.

D. Laboratory Operations

- Employ a logical and systematic problem-solving approach when identifying errors and/or technical issues with laboratory procedures and instrumentation.
- Apply principles of data security to safeguard laboratory and hospital information systems.
- Apply principles of quality assurance to ensure validity and accuracy of laboratory data.
- Recognize principles and practices of laboratory management as applied to clinical laboratory science.

E. Pre-Analytical Competencies

- Evaluate specimen collection, processing, and storage procedures in accordance with standard operating procedures.
- Ensure specimen integrity is maintained throughout the sample procurement process.

F. Analytical Competencies

- Adhere to written policies, processes, and procedures for analytical testing, analysis, and instrumentation maintenance.
- Evaluate and provide rationale for troubleshooting protocols in analytical testing when appropriate.

- Perform routine procedures in accordance with standard operating procedures.
- Apply quality control principles to analytical testing procedures, including instrument calibration, statistical analyses of control results, Westgard rules, and verification of reference ranges.
- Perform basic calculations, dilutions, and statistical analyses for procedures and analytical testing in the respective discipline.
- Apply theoretical principles of instrumentation to current methods of analysis.

G. Post-Analytical Competencies

- Perform all post-analytical procedures in accordance with quality assurance protocols and regulatory standards.
- Evaluate results for accuracy relative to quality control, patient history, specimen integrity, and overall clinical correlation.
- Report test results, including abnormal, STAT, and critical values, in accordance with the laboratory's standard operating procedures.

American Society for Clinical Laboratory Science (ASCLS) – Code of Ethics

Preamble

The Code of Ethics of the American Society for Clinical Laboratory Science sets forth the principles and standards by which Medical Laboratory Professionals and students admitted to professional education programs practice their profession.

I. Duty to the Patient

Medical Laboratory Professionals' primary duty is to the patient, placing the welfare of the patient above their own needs and desires and ensuring that each patient receives the highest quality of care according to current standards of practice. High quality laboratory services are safe, effective, efficient, timely, equitable, and patient-centered. Medical Laboratory Professionals work with all patients and all patient samples without regard to disease state, ethnicity, race, religion, or sexual orientation. Medical Laboratory Professionals prevent and avoid conflicts of interest that undermine the best interests of patients.

Medical Laboratory Professionals are accountable for the quality and integrity of the laboratory services they provide. This obligation includes maintaining the highest level of individual competence as patient needs change, yet practicing within the limits of their level of practice. Medical Laboratory Professionals exercise sound judgment in all aspects of laboratory services they provide. Furthermore, Medical Laboratory Professionals safeguard patients from others' incompetent or illegal practice through identification and appropriate reporting of instances where the integrity and high quality of laboratory services have been breached.

Medical Laboratory Professionals maintain strict confidentiality of patient information and test results. They safeguard the dignity and privacy of patients and provide accurate information to patients and other healthcare professionals. Medical Laboratory Professionals respect patients' rights to make decisions regarding their own medical care.

II. Duty to Colleagues and the Profession

Medical Laboratory Professionals uphold the dignity and respect of the profession and maintain a reputation of honesty, integrity, competence, and reliability. Medical Laboratory Professionals contribute to the advancement of the profession by improving and disseminating the body of knowledge, adopting scientific advances that benefit the patient, maintaining high standards of practice and education, and seeking fair socioeconomic working conditions for members of the profession.

Medical Laboratory Professionals accept the responsibility to establish the qualifications for entry to the profession, to implement those qualifications through participation in licensing and certification programs, to uphold those qualifications in hiring practices, and to recruit and educate students in accredited programs to achieve those qualifications.

Medical Laboratory Professionals establish cooperative, honest, and respectful working relationships within the clinical laboratory and with all members of the healthcare team with the primary objective of ensuring a high standard of care for the patients they serve.

III. Duty to Society

As practitioners of an autonomous profession, Medical Laboratory Professionals have the responsibility to contribute from their sphere of professional competence to the general well-being of society. Medical Laboratory Professionals serve as patient advocates. They apply their expertise to improve patient healthcare outcomes by eliminating barriers to access to laboratory services and promoting equitable distribution of healthcare resources.

Medical Laboratory Professionals comply with relevant laws and regulations pertaining to the practice of Clinical Laboratory Science and actively seek to change those laws and regulations that do not meet the high standards of care and practice.

ASCLS Pledge to the Profession

As a Medical Laboratory Professional, I pledge to uphold my duty to Patients, the Profession and Society by:

- Placing patients' welfare above my own needs and desires.
- Ensuring that each patient receives care that is safe, effective, efficient, timely, equitable and patient-centered.
- Maintaining the dignity and respect for my profession.
- Promoting the advancement of my profession.
- Ensuring collegial relationships within the clinical laboratory and with other patient care providers.
- Improving access to laboratory services.
- Promoting equitable distribution of healthcare resources.
- Complying with laws and regulations and protecting patients from others' incompetent or illegal practice
- Changing conditions where necessary to advance the best interests of patients.

UNewHAVEN MLS PROGRAM OVERVIEW

Graduates of the BS-MLS program will be prepared to work in clinical laboratories, hospitals, urgent care clinics, doctor's offices, blood banks, fertility centers, government service (such as the public health department), and medical manufacturing and supply companies. They will also be qualified to work in some veterinary laboratories, technical sales, instrument service, management, teaching, and technical medical writing. Since the curriculum will emphasize an understanding of laboratory methods and diagnostic interpretation, graduates of the UNewHaven MLS program may also qualify for entry into a variety of other graduate degree programs, including doctorate of clinical laboratory science (DCLS), pathologists' assistant, physician associate, or medical school training.

MISSION

The mission of the Medical Laboratory Science program is to provide a rigorous, competitive undergraduate training program to prepare graduates to become competent medical laboratory scientists who demonstrate ethical standards and promote patient-centered care.

VISION

The vision of the Medical Laboratory Science program is to become a destination program for medical laboratory science in the region recognized for quality faculty, strong industry partnerships, and successful graduates. All graduates from the MLS program will become competent, ethical, certified MLS professionals prepared to become an essential member of the healthcare team.

UNewHaven MLS Program Objectives

Professional Communication: To interact and communicate effectively by presenting information in oral and written formats; collaborating with professionals, peers, and clients; expressing ideas clearly; and giving and receiving feedback to serve the needs of patients, the public, and members of the healthcare team.

Professional Competence: To possess knowledge, skills, and abilities to acquire an entry level position as a Medical Laboratory Scientist, and to successfully complete the ASCP BOC MLS examination.

Professional Ethics and Conduct: To learn to treat patients and colleagues with respect, care, and thoughtfulness; to perform duties in an accurate, precise, timely, and responsible manner; to maintain strict confidentiality of patient information and test results; and to exercise professional judgment, skill, and care while meeting established standards of the MLS profession.

Professional and Personal Development: To continuously improve and apply medical laboratory skills and knowledge and share such with colleagues, other members of the healthcare community, and the public.

Program Learning Goals

1. *Become competent, ethical, certified healthcare professionals.*
2. *Justify a commitment to lifelong learning and professional development.*
3. *Serve as leaders in the clinical laboratory profession in technical, educational, and administrative roles.*
4. *Communicate effectively with peers, other healthcare professionals, and the public.*

Program Learning Outcomes

After completing this program, students will be able to:

1. Discuss theory underlying human disease and associated diagnostics testing in all major content areas (immunology, immunohematology and transfusion services, clinical chemistry, microbiology, hematology, hemostasis, urinalysis, body fluid analysis, and molecular diagnostics).
2. Perform moderate and high-complexity laboratory testing in all major departments of the clinical laboratory.
3. Demonstrate verbal and written skills sufficient to effectively communicate clinical laboratory information to a variety of audiences.
4. Demonstrate professional conduct and ethical behavior.
5. Apply basic research skills.
6. Describe the roles of the clinical laboratory and other health care disciplines in patient diagnosis and treatment.
7. Perform all practical clinical laboratory skills in accordance with safety standards and governmental regulations.
8. Apply quality management systems principles to the delivery of all aspects of clinical diagnostic services.
9. Recognize principles and practices of administration, regulatory compliance, and management of the clinical laboratory.

NOTE: The learning outcomes for each of the categorical graduate certificates are modified to address the relevant content area only. Please refer to the academic catalog links below for details.

Roles and Responsibilities

This section will describe the roles and responsibilities of the Program Director, the Clinical Coordinator, Faculty and Course Instructors, and the Student, as well as the level of authority for each role.

Roles and Responsibilities of the Program Director:

The Program Director provides overall leadership and administration of the MLS Program and is responsible for:

1. Maintaining compliance with University, affiliate, and NAACLS accreditation requirements.
2. Maintaining a professional, respectful, and inclusive learning environment.
3. Overseeing curriculum, student learning outcomes, and program assessment.
4. Advising, mentoring, and supporting students throughout the program.
5. Monitoring student progression and academic performance.
6. Facilitating communication among students, faculty, clinical professionals, preceptors, and clinical learning liaisons.
7. Reviewing and resolving program-related concerns and issues.
8. Leading continuous quality improvement efforts to support student success and program effectiveness.

Roles and Responsibilities of the Clinical Coordinator:

The Clinical Coordinator is responsible for:

1. Coordinating clinical practicum placements for all students.
2. Maintaining regular communication with all affiliated clinical sites.
3. Facilitating communication among students, clinical professionals, preceptors, and clinical learning liaisons.
4. Ensuring student completion of all required clinical practicum documentation, assessments, and practical exams.

Roles and Responsibilities of Faculty and Course Instructors:

Faculty/course instructors are responsible for:

1. Delivering course content and facilitating student learning.
2. Creating and evaluating assignments, examinations, laboratory activities, and other assessments.
3. Providing timely feedback and academic support to students.
4. Maintaining a professional, respectful, and inclusive learning environment.
5. Monitoring student performance and identifying opportunities for improvement.
6. Participating in program assessment and continuous quality improvement activities.
7. Remaining current in their discipline and instructional practices.

Responsibilities of Students:

Students are responsible for actively participating in their education and professional development by:

1. Attending classes, laboratories, and clinical/applied learning experiences as required.
2. Preparing for and participating in all learning activities .
3. Demonstrating professionalism, integrity, and respect for others.
4. Following University, MLS program, student laboratory, and clinical affiliate policies and procedures.
5. Maintaining confidentiality and complying with all applicable privacy regulations.
6. Practicing safe laboratory and clinical procedures.
7. Communicating professionally with faculty, staff, preceptors, clinical learning liaisons, and peers.
8. Accepting and incorporating feedback to support continuous improvement.
9. Taking responsibility for their learning, academic performance, and professional growth.
10. Representing the MLS Program and profession in a positive and professional manner.

Program Description

[2026-2027 Undergraduate Academic Catalog Listing – BS MLS](#)

STEM Designation: This program is STEM (science, technology, engineering, and math)-designated by the Department of Homeland Security. For more information, please see <https://www.newhaven.edu/admissions/stem-designated-programs.php>

Medical laboratory scientists are trained to work in clinical chemistry, hematology, immunology, immunohematology, and microbiology with various sub-specialties in each of those major areas. Our program of study consists of 121-123 credits of coursework designed to provide the knowledge and technical skills necessary to qualify an individual for work in a diagnostic clinical laboratory.

Students complete two years of pre-professional courses in science and general education and two years of professional medical laboratory science coursework. The professional coursework consists of specialized training in clinical diagnostic testing and includes didactic courses, student laboratory instruction, and clinical experience rotations. Students are required to complete all MLSC courses with a final grade of C or better. Upon successful completion of the program, students are eligible to sit for the ASCP BOC MLS exam to become a board-certified medical laboratory scientist.

The final semester of the program includes the capstone course, the review seminar, and the clinical practicum courses. The capstone course provides an opportunity for students to integrate their knowledge and experience into a culminating research project, clinical project, or practical experience. Students must also successfully complete a comprehensive exam in MLSC 4410 prior to program completion.

The Medical Laboratory Science program has a goal to prepare competent, entry-level ASCP-certified Medical Laboratory Scientists. NAACLS accreditation requires that the program achieve a 75% ASCP-BOC passage rate (for program graduates that attempt the MLS exam within one year of graduation) and a 70% graduation rate.

Graduation from the MLS program is not contingent upon passing any external certification or licensure exam.

ADMISSION REQUIREMENTS

For a full listing of university admission requirements and specific program admission requirements, see Appendix A.

A 2.7 GPA and successful completion of all prerequisites are required for entry into the 3rd year of the MLS program. Students in the BS-MLS program must maintain a 2.7 GPA or above for placement in the clinical rotations.

Completion of the prerequisite coursework does not guarantee advancement to the professional coursework and clinical training components of the program. In situations where undergraduate students do not currently meet these requirements, or in situations where seats in the current cohort are limited, approval to advance to the professional component of the program will be given based on the following criteria.

- The number of seats currently available in MLSC 3300/3301, MLSC 3340, and MLSC 3370.
- Current GPA, both cumulative and for the above science prerequisite coursework.
- Evaluation of which prerequisite courses have been completed to date (see list below).

MLS Program Required/Prerequisite Courses		Credit Hours
General Requirements		
ENGL 1112, 1113, or 1114	Seminar in Academic Inquiry and Writing	3
HLTH 1141	Pandemics and Public Health Threats	3
HLTH 2200	Introduction to US Healthcare	3
COMM 1130	Principles of Communication	3
DIET 1175	Food, Nutrition, and Culture	3
HLTH 2230	Bioethics	3
Core curriculum 6.1	Historical Perspectives	3
Core curriculum 7.1	The Individual and Society	3
Core curriculum 9.1	Perspectives on Creative Arts	3
Elective	Free elective	3
Science Prerequisites		
MLSC 1100	Intro to Medical Laboratory Science	3
HLTH 1175 ^t	Fundamentals of Medical Terminology ^t	1
MATH 1110 or MATH 1115 ^t	College Algebra or Precalculus	3
HLTH 2240 ^t or MATH 2228	Elementary Statistics	3 - 4
CHEM 1115/1117	General Chemistry I (with laboratory)	4
CHEM 1116/1118	General Chemistry II (with laboratory)	4
PHYS 1103/1113 ⁺	General Physics I with Laboratory ⁺	4
CHEM 2201/2203	Organic Chemistry I (with laboratory)	4
HLTH 2250	Research Design and Writing	3
BIOL 2253/2255	Biology I for Science Majors (with laboratory)	4
BIOL 2260/2263	Anatomy and Physiology II with Laboratory ⁺	4
BIOL 3301/3303	Microbiology with Laboratory	4
BIOL 3306	Genetics ^t	3
BIOL 3311/3313	Molecular Biology*	4
BIOL 4461/4462	Biochemistry with Laboratory*	4

*BIOL 3311/3313 Molecular Biology and/or BIOL 4461/4462 Biochemistry with Laboratory may be taken concurrently with certain upper level MLSC courses, with approval of the program director or academic advisor.

t: For students following the 2026-2027 (or later) academic year plan.

+: For students following academic year plans prior to 2026-2027.

PROGRAM REQUIREMENTS

University Core Curriculum

In addition to departmental requirements, students must fulfill all requirements of the [University Core Curriculum](#). A minimum of 120 credits is required for graduation.

Majors that comply with the School of Health Sciences (SHS) core will complete the University Core Curriculum with the following restrictions:

Core Competency 5 - Critical Thinking and Problem Solving

- C5T2: HLTH 2230 - Bioethics

Core Competency 7 - The Individual and Society

- C7T2: HLTH 2200 - Introduction to US Healthcare

Core Competency 8 - Global and Intercultural Awareness

- C8T1: DIET 1175 - Food Nutrition and Culture

Majors that comply with the School of Health Sciences (SHS) core are not restricted in the way that the Writing Across the Curriculum requirement is satisfied.

General Policies in the School of Health Sciences

Each student is assigned an academic advisor. Typically, the advisor is a member of the faculty in the major department for the student's degree program. A student may select a minor in a department other than the major department after consultation with the advisor or the appropriate department chair.

Program Curriculum

The following list describes the professional coursework required for the BS MLS major.

List of Major Required Courses (Professional Program)		Credit Hours
MLSC 3300/3301	Clinical Immunology and Serology with Lab	4
MLSC 3310/3311	Immunohematology and Transfusion Medicine	3
MLSC 3320/3321	Clinical Chemistry	4
MLSC 3330	Clinical Mycology, Parasitology, and Virology	3
MLSC 3340	Laboratory Operations, Regulation, and Compliance	3
MLSC 3355/3356	Clinical Bacteriology for Medical Laboratory Science	4
MLSC 3360/3361	Hematology with Laboratory	4
MLSC 3370	Phlebotomy and Sample Processing	2 ⁺ – 3 ^t
MLSC 4400/4401	Hemostasis, Urinalysis, and Body Fluid Analysis w/lab	4
MLSC 4408/4409 ^t	Molecular Diagnostics ^t	3
MLSC 4410	Clinical Seminar	2
MLSC 4429	Clinical Practicum I – Clinical Chemistry	2
MLSC 4430	Clinical Practicum II – Hematology	2
MLSC 4431	Clinical Practicum III – Transfusion Services	2
MLSC 4432	Clinical Practicum IV – Clinical Microbiology	2
MLSC 4450	Capstone Project	3
TOTAL:		47 – 48

See Appendix D for course descriptions.

t: For students following the 2026-2027 (or later) academic year plan.

+: For students following academic year plans prior to 2026-2027.

Students completing the BS-MLS program must complete a capstone course (MLSC 4450). This course provides an opportunity for students to integrate their knowledge and experience into a culminating research project, clinical project, or practical experience. Students will demonstrate connections between concepts and skills encountered in previous health related coursework to their capstone project and experiences.

The BS-MLS program requires that all MLS students complete clinical rotations in blood bank, hematology/ hemostasis, clinical chemistry, and microbiology. These rotations are expected to take place at one of the affiliated area hospitals. Students are required to complete all clinical courses in their final year of the program with a final grade of (B) or better. This includes MLSC 4410, MLSC 4429, MLSC 4430, MLSC 4431, and MLSC 4432. Students must also successfully complete a comprehensive exam in MLSC 4410 prior to program completion.

Additional Requirements

Clinically intensive programs utilize several off-site facilities to support a wide variety of clinical experience. Transportation to and from these sites is the responsibility of the student.

CastleBranch Fees

Students in health sciences programs will be required to submit proof of participation in interprofessional educational programs. The University of New Haven works with an external vendor, CastleBranch, to facilitate the monitoring of this work. Students work with CastleBranch directly and pay them directly for any necessary services. The one-time cost for monitoring of IPE services will be \$28, with clinical health sciences programs utilizing additional CastleBranch services. (See individual programs for additional fees and services).

Background Checks, Drug Screens, and Immunizations

Internships and clinical sites frequently require students to complete a criminal background check or drugs-of-abuse screening in order to be placed at their facility. These may be completed by placing an order through CastleBranch; the cost of these services is paid directly to CastleBranch. Failure to satisfy the background check or drug screening may result in disqualification from clinical participation, which in turn may prevent progression through the Program and ultimately in dismissal from the Program.

If a student disagrees with the accuracy of the information obtained in the background check, they may request a confirmatory test and/or a review of the accuracy of the background information within five (5) business days. All requests must be made in writing to the Program Director and must include relevant information supporting the request. The Standards Committee, in coordination with a liaison from the clinical affiliate, will review the results and render a final decision regarding the student's eligibility for participation in the clinical experience. Notification of decision will be made by the Program Director via certified letter with copy to the students' University of New Haven email address.

Students are also responsible for submitting any required health and immunization records prior to the start of the clinical education component. Students are responsible for the costs associated with obtaining background clearance and meeting the necessary health documentation requirements.

Exposure to Bloodborne Pathogens

Exposures to blood and other body fluids occur across a wide variety of occupations. Health care workers can be exposed to blood through needlesticks and other sharps injuries, mucous membranes, and skin exposures. The pathogens of primary concern are the human immunodeficiency virus (HIV), hepatitis B virus (HBV), and hepatitis C virus (HCV).

During both on-campus student laboratory experiences and off-campus clinical rotation experiences, students will be handling and working with blood and other bodily fluids. These substances should always be handled according to [Standard Precautions](#). Refer to the university's [Environmental Health and Safety](#) policies or the program-level safety procedures for more information.

Technical Standards

Admitted students must meet the technical standards/essential functions of their program of study. Technical standards establish essential qualities necessary to achieve the skills, knowledge, and competencies for entry-level practitioners as well as meet the expectations of the program's accrediting agency. All students must meet the established abilities and expectations. If a student is unable to fulfill the technical standards/essential functions, with or without accommodations, the student may be dismissed from the program.

Tuition & Fees

Academic tuition and fees are based on enrollment status and number of credit hours. The Bursar's Office is responsible for all aspects of tuition billing, payment processing, and refunds. The Bursar's Office is located within the One Stop Student Financial and Registrar Services Office. The One Stop provides a centralized and efficient customer experience while assisting students and their families with their student billing, financial aid, and registrar questions.

Lab fees are used to support courses requiring specialized materials and/or a specialized learning environment. If there is no laboratory component associated with a course, a lab fee may still be assessed if specific supplies are needed to operate the class or to support licensing and certification course delivery. Lab fees are noted on the Academic Schedule.

The student will be responsible for the costs associated with uniforms, equipment, state and national testing and maintenance of associated licenses and certifications.

Information on Tuition & Fees can be found on the University of New Haven's website at <https://www.newhaven.edu/about/departments/bursars/tuition/index.php>.

Medical Requirements

Please refer to the Student Health Services website for the most current listing of requirements.

<https://www.newhaven.edu/student-life/health-wellness/health-services/forms.php>

Students must be in good physical and mental health in order to meet physical performance standards, as outlined in the Essential Functions, and possess the clarity of mind necessary for health care duties. As a clinical program, students must also comply with vaccination requirements of clinical sites, which may be different from those of the university.

All medical records will be maintained in confidence and cannot be released without the consent of the student.

Health Insurance

All full-time undergraduate and international (undergraduate and graduate) students are required to have health insurance and are automatically billed for the cost of the University-sponsored student health insurance plan. Domestic full-time undergraduate students with existing health insurance coverage who wish to waive the coverage offered by the University, must submit an online waiver by the established deadline.

The University of New Haven offers student health insurance for those who do not have private insurance. Information about the University student health insurance program and the online waiver system for those who have private insurance can be located in the Bursar's Office webpage.

For more information, please refer to the Student Health Services website:

<https://www.newhaven.edu/about/departments/bursars/student-health-insurance.php>

For specific questions regarding health insurance, contact Health Services at 203.932.7079.

Professional Liability Insurance

Each student is provided professional liability insurance through the University of New Haven that applies to clinical/field/internship rotations. These coverages are up to \$1,000,000 each claim and up to \$3,000,000 aggregate (total). The proof of insurance will be provided upon request. No cost is incurred by the student.

Classroom Supplies & Expectations

Students are expected to have available note taking materials, including electronic and paper materials. Prior to the start of each term, students must arrange to have access to all textbook and electronic course content through the publisher and University learning management systems identified on the course syllabi and course catalog.

Further, students are expected to:

- Have the required computer software, technology, and high-speed internet access necessary to complete course-related activities.
- Login to the university learning management system and university email account regularly to read announcements, respond to requests, complete activities and assignments, and participate fully in all program activities.
- Develop a time-management strategy, recognizing that this program will require significant commitment from each student. It is estimated that over a full semester, a student will spend 3 to 4 hours of work per week for each course credit (e.g., three (3) credit hours is a minimum of nine (9) hours of work/study time).
- Maintain a study schedule during intersession and summer semesters, recognizing that success in the program requires continued preparation and review of curriculum.
- Allow for completion of pre-clinical and clinical requirements which may take place outside the traditional academic calendar.

Grading Policy

Grading in the MLS program is defined by the following domains:

- **Cognitive:** includes written or computerized tests, quizzes, checklists, worksheets, case studies, presentations, and/or reports used to assess the student's knowledge of the subject area.
- **Psychomotor:** includes technical skills judged by performance on a combination of practical exercises and exams, image exams, completion of procedures, checklists, worksheets, or other assignments.
- **Affective:** includes evaluation of behaviors like attendance and participation as well as formal evaluation using a behavior-based rating scale like that on the Affective Evaluation form.

Undergraduate and Graduate Scales

All final course grades for MLS program courses (with >0 credit hours assigned) will be assigned based on the following scale:

GRADING SCALE			
Grades Scored Between (%)			Letter Equivalent
93.0	to	100	A
90.0	to	Less than 93	A-
87.0	to	Less than 90	B+
83.0	to	Less than 87	B
80.0	to	Less than 83	B-
77.0	to	Less than 80	C+
73.0	to	Less than 77	C
Less than 73%			F*

Failure to achieve the minimum standard in any MLS program course will earn an F (Failure) grade for the course.

All MLSC laboratory courses (those being taken for 0 credit hours) are graded on a "Satisfactory/Unsatisfactory" scale.

- Satisfactory (S) = final grade $\geq 73\%$
- Unsatisfactory (U) = final grade $< 73\%$

In order to progress towards MLS program completion, students must achieve a C or better in the lecture component AND complete the associated 0-credit laboratory course with a "Satisfactory" final grade. Failure to pass the laboratory course (regardless of performance in the lecture), will result in retaking BOTH the lecture and the laboratory courses. The associated lecture and laboratory courses cannot be taken independently.

In order to continue in the Medical Laboratory Science Program, students **must meet the minimum standard of 73% [C]** or better in all MLS courses, including the didactic and laboratory components. Earning below a 73% in any course will mean the student has failed the course.

A. For all MLSC lecture courses (with or without a laboratory component; graduate and undergraduate):

The final cumulative written exam will cover all materials addressed throughout the course and

must be passed with a [C] minimum (73% or better) to pass the course for program credit.

B. For all MLSC laboratory courses (0-credit; S/U grading)

The final practical exam will cover required course competencies and must be passed with a [C] minimum (73% or better) to receive a "S" (satisfactory) for the course.

C. For all MLSC Clinical Practicum courses (graduate and undergraduate):

The final practical exam will cover required program competencies and must be passed with a [C] minimum (73% or better) to pass the course for program credit.

D. For Clinical Seminar courses ONLY (MLSC 4410, MLSC 4420, MLSC 6631, MLSC 6632):

The final practice certification exam will cover all materials from program courses and must be passed with a [C] minimum (73% or better) to pass the course for program credit.

University Academic Policies can be found in the current academic catalog. The "Grade Point Average", "Grading System", and "Academic Standing and Dismissal" policies are excerpted directly from the 2026-2027 Academic Catalog.

[2026-2027 UG Academic Catalog Listing](#)

Grading System

The following grading system applies to final course grades.

A	Excellent	4.0 quality points
A-	Excellent	3.7 quality points
B+	Good	3.3 quality points
B	Good	3.0 quality points
B-	Good	2.7 quality points
C+	Fair	2.3 quality points
C	Fair	2.0 quality points
C-	Fair	1.7 quality points
D+	Poor	1.3 quality points
D	Poor	1.0 quality point
D-	Poor, lowest passing grade	0.7 quality points
F	Failure	0 quality points
AU	Audit. Indicates course was attended without expectation of credit or grade (0 quality points).	
INC,	Incomplete. A grade of INC, INC+, or INCM is given only in special circumstances and indicates that the student has been given permission by the instructor to complete the course (with the same instructor) after the end of the term. Some required course work remains to be completed to gain academic credit for the course. An INC, INC+, or INCM shall not be automatic but shall be based upon an evaluation of the student's work completed up to that point and an assessment of the student's ability to complete course requirements. To remove the INC, INC+, or INCM grade, the student must complete all required course work as stipulated by the instructor. Refer to the policy statement below on INC, INC+, and INCM grades.	
INC+,		
INCM		
DNA	Did Not Attend. Indicates nonattendance in a course for which a student had previously registered	

- but not officially dropped (0 quality points).
- W** Withdrawal. Indicates withdrawal from a course any time after the last date to drop a course as published in the academic calendar. 0 quality points.
- S** Satisfactory. Given only in noncredit courses. 0 quality points.
- U** Unsatisfactory. 0 quality points.

Academic Standing

Good academic standing for undergraduate students is defined as maintaining a minimum GPA of 2.00 based on credits earned for completed courses, excluding grades of "W," "INC," and "INC+." Academic standing is evaluated at the end of the fall and spring semesters and the summer II term; evaluation at these times applies to both full-time and part-time students.

Academic standing is recorded on the student's transcript.

STUDENT ADVISING AND GUIDANCE

Each student is assigned an academic advisor. Typically, the advisor is a member of the faculty in the major department for the student's degree program. A student may select a minor in a department other than the major department after consultation with the advisor or the appropriate department chair.

The MLS advisors/faculty and other academic advisors are available to provide guidance for course registrations. It is important that students complete the MLS coursework in a deliberate and systematic way to graduate on time. Students who are completing extra programs such as minors or pre-med concentrations, etc., should carefully schedule the completion of these courses. Any student wishing to complete a study abroad experience should consult with the program director and/or their academic advisor as early as possible in order to account for this in the course plan.

The MLS program director and faculty are available to advise students on program policy comprehension, academic issues, and professional goals. All advising and counseling sessions are treated as confidential. The program director and other MLS faculty are available to discuss personal issues as they affect academic performance, but all students are urged to use the available university resources if they are experiencing a challenge that is affecting academic performance, whether it is an illness, a financial crisis, or some other concern. The Program Director can guide students towards applicable policies which may address issues affecting academic performance. Students are encouraged to use the University of New Haven resources and personnel for professional counseling.

The MLS program and the University of New Haven are committed to maintaining confidentiality of all formal and informal information shared by students. The university has many services available to support students throughout their academic career; many of these resources can be found by contacting the [Center for Student Success](#). Refer to the [University of New Haven Student Handbook](#) for additional information on student success and advising as well as counseling and psychological services.

In particular, the Dean of Students office can also help direct students towards appropriate resources and help to communicate with faculty outside of the MLS program as needed in cases of extreme hardship.

<https://www.newhaven.edu/student-life/student-affairs/dean-of-students/index.php>

Academic Probation and Suspension

The MLS program follows the UNewHaven Academic Standards concerning academic probation. Policies regarding registration restrictions and appeals can be found in the [University of New Haven Student Handbook](#).

DISMISSAL FROM THE MLS PROGRAM:

Potential causes for dismissal include, but are not limited to:

- Violation of the University of New Haven Student Code of Conduct and/or other university policies per the [University of New Haven Student Handbook](#).
- Any significant act of unsafe behavior, such as failing to follow prescribed laboratory safety policies, mishandling or misuse of laboratory equipment and supplies, endangering fellow students or university employees, or other behaviors not exclusive of the examples provided.
- Excessive absence or tardiness in any MLS course, including clinical rotations.
- Inability to meet general course competencies.
- Inability to complete the clinical courses as assigned, for any reason, including student health issues.
- Dismissal from a clinical rotation by an assigned healthcare facility for any reason, per the affiliation agreement.
- Failure to obtain a minimum final grade of 73% [C] in any two MLS courses or receiving less than 73% [C] twice in any one MLS course.
- Failure to meet the minimum passing grade requirements for any prerequisite or MLS program course.
- Failure to successfully complete the final comprehensive exam for the MLS program (given in MLSC 4410/6631).
- “Never” responses to any of the behaviors outlined in the clinical rotations Affective Evaluation form (found in the Clinical Practicum Handbook).

Other issues, not described here, may arise where it is considered necessary to consider dismissal of a student. In all cases requiring student disciplinary action, the MLS Academic Standards Committee will meet to discuss and address the situation.

MLS Academic Standards Committee

In cases where student performance or behavioral issues result in the need to consider program dismissal, an Academic Standards Committee meeting will be convened. This committee will consist of, at minimum, the MLS Program Director and two other university personnel, and will focus on discussion of student progress and performance in the affective, didactic, student laboratory, and clinical settings along with the initiating concern. Examples of others who may be included in the Academic Standards Committee include (but are not limited to) a representative from the Dean of Students office, the SHS Dean or Associate Dean, the Allied Health Department Chair, MLS faculty, and faculty from outside the MLS program.

For complaints with the potential for dismissal from the Program, the composition of the Academic Standards Committee shall be determined within (3) business days of receipt of complaint and a meeting to review and determine next steps will be arranged for within 5 business days. Follow up action will be communicated to the student as available. For any situations for which it is determined that student dismissal from the program is being considered, at least one member of the SHS administration (most often either the Allied Health Department Chair and/or the SHS Associate Dean)

will be included in the evaluation of the situation.

Possible outcomes of the disciplinary process include, but are not limited to:

- Issuance of a disciplinary warning with implementation of a performance improvement plan detailing specific behavioral expectations necessary from the student.
- Repeating coursework.
- Referral of the issue to other university offices, such as the Dean of Students office or the Academic Misconduct Board.
- Dismissal from the MLS program.

Student Disciplinary Warnings

For issues of student performance that do not warrant dismissal from the program, a disciplinary warning may be issued. This process will be used to document serious concerns with student performance and any counseling the student has received. The Academic Standards Committee may or may not be convened in these circumstances, depending on the issue itself.

Student Dismissal from the MLS Program

Students are expected to demonstrate integrity, professionalism, safety, and satisfactory academic performance in accordance with the standards and policies established by this Program Handbook. Documented concerns regarding a student's unacceptable behavior and/or incompetent performance, in all settings (classroom, lab, and clinical) will be considered justification for the Academic Standards Committee to convene a meeting to discuss continued enrollment.

In most situations where it is determined that a student will not be allowed to continue in the MLS Program, a formal meeting consisting of the student, the MLS Program Director, and at least one other member of the Academic Standards Committee will be convened to deliver this decision to the student. For students that are facing dismissal due to failure of [2] or more MLSC courses, the formal meeting is not required, and notification will be made via the student's university email address. Any discipline resulting in dismissal from the Program will be subject to the Appeals process established herein.

Note that certain situations which lead to student dismissal from the MLS program, notably failure of [2] or more MLSC courses, may be communicated to the student via university email or other official communication means and will typically not involve a formal meeting with the Academic Standards Committee.

For students facing Academic Dismissal from the University, the dismissal and appeals process is separate from that undertaken by the MLS program.

Appeal from Program Dismissal

A student who has been dismissed from the MLS Program may request a hearing with the MLS Academic Standards Committee. A written request to appear before the committee must be submitted to the Program Director within ten (10) business days after date of written dismissal (preferably via email). The written request should briefly detail the reason(s) why the student believes that reconsideration of their case is warranted. Failure to provide a written request within the prescribed time will result in waiver of appeal.

Upon written submission by the student, an appeal will be heard by the MLS Academic Standards Committee. Hearings will usually be conducted in private. The student has the right to invite an advocate during the hearing, and their advocate, if any, shall be allowed to attend the entire portion of the hearing at which information is received (excluding deliberations). The student has the right to be assisted by an advocate they choose who is a member of the University community; this individual does not and cannot serve as an attorney. The student is responsible for presenting their own information, and therefore, advocates are not permitted to speak for or in place of the student. The student should select as an advocate a person whose schedule allows attendance at the scheduled date and time of the MLS Program Academic Standards Committee hearing because delays will not be allowed due to the scheduling conflicts of an advocate. If a student needs to seek an advocate but does not have anyone local and available to assist them in this process, they are advised to contact the Office of the Dean of Students.

If the appeal is granted, the student will be notified by the Program Director via official communication channels (typically via the student's official university email address). The Academic Standards Committee may require special arrangements or conditions to allow the student to remain in the program. Satisfaction of such conditions is an obligation of the student.

If there is no appeal or if an appeal is denied, the student will be removed from any MLS Program course(s) for which they are registered. Notification about the student's appeal status is made by the Program Director to the students' University of New Haven email address. The student may continue in any other University semester, intersession or summer course(s) outside of the MLS program but may not begin any MLS Program course(s) after the dismissal is effective.

Program Re-entry

For students that have a) left the MLS program voluntarily they may apply for re-entry. Re-entry will be determined on a case-by-case basis and may require an interview with the Academic Standards Committee and may be subject to implementation of a formal performance improvement plan (PIP).

Given the progressive nature of the Program, upon re-enrollment the student may be required to repeat some or all of the MLS Program professional coursework from the beginning. In this situation, no credit will be given for previously passed coursework or examinations, including didactic, laboratory, or clinical experiences.

This provision does not apply to students dismissed from the MLS Program for reasons other than academic performance such as Student Conduct violations. The possibility of re-entry will be determined at the time of dismissal, under the Appeals process.

TECHNICAL STANDARDS/ESSENTIAL FUNCTIONS

SHS Policy on Technical Standards/Essential Functions

Admitted students must meet the technical standards/essential functions of their program of study. Technical standards establish essential qualities necessary to achieve the skills, knowledge, and competencies for entry-level practitioners as well as meet the expectations of the program's accrediting agency. All students must meet the established abilities and expectations. If a student is unable to fulfill the technical standards/essential functions, with or without accommodations*, the student may be dismissed from the program.

**Note that, given the nature of the profession, accommodations are typically not available for the practical/laboratory activities associated with the program.*

MLS Program Technical Standards/Essential Functions

Technical Standards/Essential Functions make up the non-academic requirements of the profession that all students must demonstrate to succeed in the MLS program. After reading the Technical Standards/Essential Functions and meeting with the Program Director, students must sign the Technical Standards/Essential Functions form which will be kept in their MLS department file. Signing this form (see Appendix B) constitutes acknowledgement of and acceptance of these requirements, and affirms that you are aware of the technical standards/essential functions needed to succeed in the MLS Program. Once admitted to the program, failure to meet any of these Technical Standards/Essential Functions may result in dismissal from the program.

The Technical Standards/Essential Functions required for successful completion of the MLS program at the University of New Haven are listed below. In accordance with the university's commitment to providing equal access for individuals with disabilities under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act (ADAAA of 2008), students seeking reasonable accommodations to meet these requirements should contact the [Accessibility Resources Center](#) to ensure appropriate accommodations can be made in a timely manner.

Professional skills:

- Maintain professional decorum and composure in a wide variety of situations.
- Maintain confidentiality and integrity.
- Follow directions, be able to make decisions, prioritize tasks, and work on multiple tasks simultaneously.
- Work independently and in cooperation with others.
- Apply acquired learned skills and knowledge to new situations.
- Work with potential biologic, chemical, radiologic, mechanical, and electrical hazards.
- Maintain personal hygiene and neatness appropriate to the professional workplace.
- Achieve regular, reliable, and punctual attendance at classes and regarding their clinical responsibilities.

Communication skills:

- Communicate effectively and efficiently with coworkers and members of the healthcare team.
- Read and comprehend written material.
- Record information accurately and clearly.

Technical skills:

- Complete fine repetitive movements such as pipetting.
- Manipulate lab instruments.
- Demonstrate proficiency to work with flammable and infectious materials, hazardous chemicals, and electrical equipment.
- Demonstrate proficiency in all areas of the clinical lab.
- Work in areas with distracting noises, unpleasant odors and in close proximity to fellow workers.
- Perform all diagnostic procedures in the clinical lab.
- Perform delicate manipulations of clinical specimens, clinical lab equipment, tools, and instruments.
- Perform diagnostic procedure and venipuncture safely and accurately.
- Adhere to standard precautions and meet safety standards applicable to the clinical laboratory.
- Accurately identify, describe, and record fine details of clinical specimens both macroscopically and microscopically.
- Read and interpret charts, graphs, and labels.
- Read and interpret instrument panels and printouts.
- Independently perform all aspects of diagnostic procedures in the clinical lab and report results accurately and timely.

CLINICAL PRACTICUM

Please refer to the full Clinical Practicum Student Handbook for all policies and procedures related to the clinical practicum. This handbook is available via the UNewHaven MLS program websites or by contacting the MLS Program Director via email.

Clinical Site Information

Information about each of the current clinical affiliates is available from the program Clinical Coordinator. Students must consult with the Clinical Coordinator prior to contacting any of the clinical site education coordinators. Preferences on methods of communication and whether said communication should be handled via the program faculty or the student, directly, will depend on the clinical site and the stage of assignment to a clinical site.

Current List of Clinical Facilities:

- VACT Healthcare – West Haven VA Medical Center
- Yale New Haven Health System
 - Yale New Haven Hospital
 - Bridgeport Hospital
 - Greenwich Hospital
 - Lawrence + Memorial Hospital
 - Westerly Hospital
- Hartford Healthcare
 - Hartford Hospital
 - MidState Medical Center
 - The Hospital of Central Connecticut at New Britain General and Bradley Memorial
 - The William W. Backus Hospital
 - Windham Community Memorial Hospital, Inc.
 - St. Vincent's Medical Center
- Stamford Health – Stamford Hospital
- Griffin Health – Griffin Hospital

NOTE: The specific locations available for clinical rotation placements within the above healthcare organizations are subject to change based on the needs and availability of staffing within each site. It is common practice for a primary location to have satellite locations where students will be expected to attend a portion of their rotations.

Affiliation agreement with clinical sites: Contractual affiliation agreements are maintained with all clinical affiliate sites. The clinical facility must have enough staff so that the students do not perform service work in lieu of staff. Students can never be used to replace laboratory staff in shortage situations. Students may be employed by clinical affiliates. However, employment must be scheduled outside of clinical practice hours and must not conflict with the student's learning experience and/or performance evaluation. Service work and/or student employment cannot be used to fulfill practicum requirements. If a student wishes to work while in clinical rotation at the site, it is optional and paid.

CERTIFICATION EXAMS

Eligibility

The Medical Laboratory Science Program is designed to meet the eligibility requirements for United States MLS Certification. The primary certifying body for the clinical laboratory professions is the American Society for Clinical Pathology (ASCP) Board of Certification (BOC). The relevant examination awards the MLS(ASCP) credential, and requires completion and documentation of continuing education to maintain. American Medical Technologists (AMT) also offers a certification exam which awards the MLS credential. The credential awarded is the MLS(AMT) and also requires completion and documentation of continuing education to maintain. Upon successful completion of the UNewHaven MLS Program, the student will be eligible to sit for either examination and is expected to become certified within 3 months (or as soon as is practical).

Application Form and Fees

Eligible applicants must submit an online application for the ASCP examination. For US Certification information and instructions on how to apply, please go to: [ASCP Certification Information](#)

- To apply online go to: [ASCP BOC Application](#)

Payment of an application fee is required upon submission of the online application. The cost of the Board of Certification (BOC) examination is determined by the agency (ASCP) and is currently:

[BOC \(ASCP\) MLS Exam](#): \$260.00 (as of 8/1/2026)

(Application fee is subject to change at the discretion of the ASCP BOC)

State Licensures

Some states require a license to work, which may require successful completion of additional coursework, clinical practicum time, or a state-administered examination. The MLS Program does not guarantee provision of appropriate course work/experience/practica to meet certification or licensure requirements other than those of the ASCP. It is the student's responsibility to complete the additional requirements necessary to work in these states. Each state provides its own guidelines for licensing, which are available on state agency websites such as the state specific department of health.

For additional information on states licensure see:

- [ASCLS - Licensure Information](#)
- [ASCP BOC – Licensure Information](#)

Certification Exam Schedule

The ASCP BOC exam is offered as a computer adaptive test (CAT) throughout the year and at designated examination sites. Once the application has been processed through ASCP, you will receive information about how to schedule your exam.

Student Responsibility

Each eligible student handles all aspects of the ASCP BOC exam. Student responsibilities include accessing the application on-line (see link below), paying the exam fee, scheduling the exam, transportation to the testing site, consequences for tardiness or absenteeism, and retakes if he/she fails the exam. Please follow all the instructions as indicated on the testing website.

OPERATIONAL POLICIES

The **UNewHaven** MLS program is committed to ensuring the following fair practices:

- Student recruitment and admission will be non-discriminatory per existing governmental regulations and those of the sponsor.
- Faculty recruitment and employment practices will be non-discriminatory following existing governmental regulations and those of the sponsor.
- The granting of the degree or certificate will not be contingent upon the student passing any type of external certification or licensure examination.
- A teach out plan will be developed and sent to NAACLS within 30 days of the official announcement of the closure of the program.
- Service work by students in clinical settings outside of academic hours will be noncompulsory.
- Students may not be substituted for regular staff during their student experiences.

Equal Opportunity and Non-Discrimination Policies

The University of New Haven is committed to achieving a diverse and pluralistic community that reflects the multiracial and culturally diverse society in the United States through strict non-discrimination in admissions, educational programs, and employment. The commitment to Affirmative Action is also a commitment to be proactive in the continuing effort to diversify the faculty, staff, and the student body at the University. The University will base decisions on employment so as to further the principle of equal employment opportunity.

Refer to the linked pages for more information about [UNewHaven Equal Opportunity Statements](#) and [Title IX information](#).

Student Accessibility Resources

The University of New Haven takes great pride in the accomplishments, both personal and academic, of its many students and alumni. In keeping with this ideal, the University is committed to providing equal access for individuals with disabilities to all of its programs and services. This commitment embodies the University's determination to ensure the inclusion of all members in its community and is consistent with legal requirements of both Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act ("ADAAA") of 2008.

[The Accessibility Resources Center](#) ("ARC") provides comprehensive supports and a range of services that serve to promote educational equity and ensure that students are able to participate in the opportunities available at the University of New Haven.

To sustain this objective, students are expected to exercise a significant degree of independence while also being encouraged to utilize the resources of the Accessibility Resources Center as well as other campus resources to the degree the student determines necessary to obtain academic, social, and career goals. The Accessibility Resources Center is available to assist students as the need arises.

PROGRAM CLOSURE TEACH OUT PLAN

NAACLS requires the program to have a “teach out” plan in case the program unexpectedly closes due to natural or unnatural disasters or permanent closure. Intentional closure of the program will be communicated to all students as soon as possible after the decision to close has been finalized. In case of disaster, the university will inform students of a plan for continuation of their education as soon as that information is available. NAACLS will be notified and a teach out plan will be provided to them within 30 days of the official announcement of program closure.

Prospective students:

- In the case of permanent closure students will be informed that the program will not take a new cohort due to program closure.
- In the case of a natural or unnatural disaster the program will attempt to work with students, clinical affiliates, and other laboratory science programs to continue education and training until training can resume at the university.
- Students will be counseled as needed in applying to other local programs.
- Program closure information will be posted on the program website.

Current students:

- Students will be informed of the planned program closure.
- In the case of a natural or unnatural disaster the program will attempt to work with students, clinical affiliates, and other laboratory science programs to continue education and training until training can resume at the university.
- In case of a mandated permanent closure, every attempt will be made to ensure that currently enrolled students will be allowed to complete program.
- The Program Director (at the time of program closure) will be designated to approve student applications for certification exams for a period of up to 5 years after official program closure.

PROFESSIONAL MEMBERSHIPS

Students are encouraged to enroll as student members in one or more of the professional organizations associated with clinical laboratory science. The organizations serve to meet the interests and needs of the members including offering continuing education, and advocating to governmental bodies regarding laws and regulations pertinent to the field. Many of these organizations offer student membership rates and students are entitled to all privileges and benefits designated to the student member. This includes the receipt of professional journals, announcements of local, regional, and national meetings, and bulletins.

Following is a list of some of the membership agencies and phone numbers:

American Society for Clinical Laboratory Science [ASCLS]

1861 International Drive, Suite 200. McLean, VA 22102

Ph. 571.748.3770

www.ascls.org

American Society for Clinical Pathology [ASCP]

33 W. Monroe Suite 1600. Chicago, IL 60603

Ph: 312-541-4999

www.ascp.org

Association for the Advancement of Blood and Biotherapies [AABB]

(formerly American Association for Blood Banks [AABB])

8101 Glenbrook Road. Bethesda, MD 20814

Ph: 301-215-6489

www.aabb.org

Association for Diagnostics and Laboratory Medicine [ADLM]

(formerly American Association for Clinical Chemistry [AACC])

1850 K Street, NW, Suite 625. Washington, D.C. 20006

Ph: 800-892-1400

www.aacc.org

American Society for Microbiology [ASM]

1752 N. Street N.W. Washington, D.C. 20036-2904 Ph: 202-737-3600

www.asm.org

American Medical Technologists [AMT]

10700 West Higgins Rd., Suite 150. Rosemont, IL 60018

<https://americanmedtech.org/>

APPENDIX A – Admission Criteria and Procedures

UNEWHAVEN MEDICAL LABORATORY SCIENCE (MLS) PROGRAM ADMISSION CRITERIA AND PROCEDURE BACHELOR OF SCIENCE DEGREES IN MEDICAL LABORATORY SCIENCE

Full-Time Student Freshman Medical Lab Science Program Status

*Admission Criteria and Procedure: Full-Time Freshman Students

1. Complete and submit an online Undergraduate Application for Admission.
2. Submit official secondary/high school transcript including:
 - Science grades: must have a “B” grade or better in biology and chemistry
 - Math grades: must have a “B” grade or better in all math courses
 - GPA: 2.9 / higher on a 4.0 scale
3. OPTIONAL: Official SAT or ACT Scores
 - Submission of SAT or ACT test scores for admission is optional for incoming undergraduate and transfer student applications.
4. Submit at least one (1) letter of recommendation.
5. An interview with the MLS Program Director is optional but may be requested at the discretion of the program.

- The Directors and Admissions Counselors in the Office of Undergraduate Admissions, in consultation with the MLS Program Director, select MLS students utilizing the MLS Program Admission Criteria and Procedures.
- After completion of the Sophomore year (see academic worksheet), students will be evaluated by the MLS Academic Standards Committee: A cumulative grade point average of 2.7 or higher on a 4.0 scale is required for continuance in the Junior-level MLSC courses of the MLS program.
- For additional information about the MLS program, access: www.newhaven.edu/health/sciences

*Admission Criteria and Procedure: Full-Time Transfer Students who have completed **fewer than 12 credits** from their previous college(s):

1. Complete and submit an online Undergraduate Transfer Application for Admission.
2. Submit official secondary/high school transcript including:
 - Science grades: must have a “B” grade or better in biology and chemistry
 - Math grades: must have a “B” grade or better in all math courses
 - GPA: 2.9 / higher on a 4.0 scale
3. OPTIONAL: Official SAT or ACT Scores
4. Submit at least one (1) letter of recommendation.
5. Submit official transcripts from all colleges/universities you attended:
 - a. Transfer credits to be accepted with a “C-” grade or better and/or with the department chair’s approval.
 - b. All transfer math and science courses require a “C” grade or better.
 - c. College GPA: 2.7 / higher on a 4.0 scale; or demonstrates evidence of recent successful academic college/university performance.
6. An interview with the MLS Program Director is optional but may be requested at the discretion of the program.

- The Directors and Admissions Counselors in the Office of Undergraduate Admissions, in consultation with the MLS Program Director, select MLS students utilizing the MLS Program Admission Criteria and Procedures.
- After completion of the Sophomore year (see academic worksheet), students will be evaluated by the MLS Academic Standards Committee: A cumulative grade point average of 2.7 or higher on a 4.0 scale is required for continuance in the Junior-level MLSC courses of the MLS program
- For additional information about the MLS program access www.newhaven.edu/health/sciences

***Admission Criteria and Procedure: International Students**

1. Complete and submit an online Undergraduate International Application for Admission.
2. **For First-Year Applicants** (Students who just finished, or in the process of finishing, secondary/high school): Submit OFFICIAL/notarized/attested/or certified copies of ORIGINAL senior secondary/high school records. **Must adhere to the admission criteria and procedure for the full-time freshman students listed above.**

For Transfer Applicants: Students who have attended any post-secondary institution (college/university): Submit OFFICIAL/notarized/attested/or certified copies of ORIGINAL senior secondary/high school records (see 2.a. above) AND ALL post-secondary school (university/college) records. **Adhere to the admission criteria and procedure for full-time transfer students above.**

- All non-native English language speakers must demonstrate English language competency by providing a TOEFL score of 80 on the internet-based test (iBT), IELTS score of 6.5, or official SAT or ACT Scores.
- An interview with the MLS Program Director is optional.

Full-Time Transfer Students/Sophomore Medical Laboratory Science Program Status

***Admission Criteria and Procedure: Full-Time Transfer Students** who have completed **more than 12 credits** from their previous college(s):

1. Complete and submit an online Undergraduate Transfer Application for Admission.
2. Submit official transcripts from all colleges/universities you have attended:
 - a. Transfer credits to be accepted with a "C-" grade or better and/or with the department chair's approval
 - b. All math and science courses require a "C" grade or better.
3. College GPA: 2.7 / higher on a 4.0 scale; or demonstrates evidence of recent successful academic college/university performance.
4. An interview with the MLS Program Director is optional.

- The Directors and Admissions Counselors in the Office of Undergraduate Admissions, in consultation with the MLS Program Director, select MLS students utilizing the MLS Program Admission Criteria and Procedures.
- After completion of the Sophomore year (see academic worksheet), students will be evaluated by the MLS Academic Standards Committee: A cumulative grade point average of 2.7 / higher on a 4.0 scale is required for continuance in the Junior-level MLSC courses of the MLS program
- For additional information about the MLS program access www.newhaven.edu/health/sciences.

- The Directors and Admissions Counselors in the Office of Undergraduate Admissions, in consultation with the MLS Program Director, select MLS students utilizing the MLS Program Admission Criteria and Procedures.
- Compiled by Carleta B Maurice MS, MLS (ASCP) Director, MLS Program, PIR (2021), in accordance with the University of New Haven Office of Undergraduate Admissions.
- For additional information about the MLS program access www.newhaven.edu/health/sciences.

APPENDIX B – Acknowledgement of Program Requirements

Technical Standards/Essential Functions required for the MLS program:

Admitted students must meet the technical standards/essential functions of their program of study. Technical standards establish essential qualities necessary to achieve the skills, knowledge, and competencies for entry-level practitioners as well as meet the expectations of the program's accrediting agency. All students must meet the established abilities and expectations. If a student is unable to fulfill the technical standards/essential functions, with or without accommodations*, the student may be dismissed from the program.

**Note that, given the nature of the profession, accommodations are typically not available for the practical/laboratory activities associated with the program.*

Technical Standards/Essential Functions required for successful completion of the MLS program at the University of New Haven are:

Professional Skills

- Maintain professional decorum and composure in a wide variety of situations.
- Maintain confidentiality and integrity.
- Follow directions, be able to make decisions, prioritize tasks, and work on multiple tasks simultaneously.
- Work independently and in cooperation with others.
- Apply acquired learned skills and knowledge to new situations.
- Work with potential biologic, chemical, radiologic, mechanical, and electrical hazards.
- Maintain personal hygiene and neatness appropriate to the professional workplace.
- Achieve regular, reliable, and punctual attendance at classes and regarding their clinical responsibilities.

Communication Skills

- Communicate effectively and efficiently with coworkers and members of the healthcare team.
- Read and comprehend written material.
- Record information accurately and clearly.

Technical Skills

- Complete fine repetitive movements such as pipetting
- Manipulate lab instruments.
- Demonstrate proficiency to work with flammable and infectious materials, hazardous chemicals, and electrical equipment.
- Demonstrate proficiency in all areas of the clinical lab.
- Work in areas with distracting noises, unpleasant odors and in close proximity to fellow workers.
- Perform all diagnostic procedures in the clinical lab.
- Perform delicate manipulations of clinical specimens, clinical lab equipment, tools, and instruments.
- Perform diagnostic procedure and venipuncture safely and accurately.

- Adhere to universal precaution measures and meet safety standards applicable to the clinical laboratory.
- Accurately identify, describe, and record fine details of clinical specimens both macroscopically and microscopically,
- Read and interpret charts, graphs, and labels.
- Read and interpret instrument panels and printouts.
- Independently perform all aspects of diagnostic procedures in the clinical lab and report results accurately and timely.

Student Acknowledgement of Technical Standards/Essential Functions

By signing below, I acknowledge that I have read and understood the Technical Standards/Essential Functions required for successful completion of the MLS program at the University of New Haven. I am aware that failure to meet any of the Technical Standards/Essential Functions may result in dismissal from the program.

Student: _____
PRINTED NAME

Student: _____
SIGNATURE

Date: _____

Confirmed by:

MLS Program Director: _____
PRINTED NAME

MLS Program Director: _____

Date: _____

MLS Program Academic Commitment

I have received a copy of the University of New Haven Medical Laboratory Science Program Student Handbook. By signing this MLS Program Academic Commitment, I affirm my understanding and commitment to act in accordance with the policies set forth within the Medical Laboratory Science Program Student Handbook ("Program Handbook"). My continuation in the University of New Haven MLS Program ("Program") shall be contingent upon my meeting the requirements of the course instruction as set forth in the Program Handbook.

I acknowledge understanding of the following:

- I will follow the direction of the University, MLS Program Director, MLS Clinical Coordinator, MLS Academic Standards Committee, and faculty.
- I may be dismissed from the Program in accordance with the policies set forth in Program Handbook.
- I will be responsible to purchase materials, textbooks, and equipment, as required for participation in the Program.
- Fees associated with national certification testing are not included in tuition and I will be solely responsible for payment thereof.
- The Program Handbook policies serve as guidelines and are not inclusive and may change at the discretion of the Program.
- In the performance of clinical and field activities, I am not an employee of the clinical or field sites.

By signing below, I certify that I have read, understand, and agree to abide by the policies and procedures of the MLS Program as set forth in this Program Handbook (version: 2026-2027).

Student: _____
PRINTED NAME

Student: _____
SIGNATURE

Date: _____

Confirmed by:

MLS Program Director: _____
PRINTED NAME

MLS Program Director: _____
SIGNATURE

Date: _____

MLS Program HIPAA Compliance Policy

All students must follow Health Insurance and Portability and Accountability Act (HIPAA) rules when participating in clinical activities at affiliated hospitals and clinical sites. HIPAA Rules provide federal protections for patient health information and give patients an array of rights with respect to that information. Included in this suite of regulations is the Privacy Rule, which protects the privacy of individually identifiable health information and addressed the use and disclosure of Protected Health Information (PHI). Students are responsible for safeguarding the information by meeting the requirements of the Rules.

HIPAA Privacy Rule

The Privacy Rule protects most individually identifiable health information held or transmitted in any form or media, whether electronic, paper, or oral. Individually identifiable health information is information, including demographic information, that relates to:

- The individual's past, present, or future physical or mental health or condition,
- The provision of health care to the individual, or
- The past, present, or future payment for the provision of health care to the individual.

In addition, individually identifiable health information identifies the individual or there is a reasonable basis to believe it can be used to identify the individual. For example, a medical record, laboratory report, or hospital bill would be PHI if information contained therein includes a patient's name and/or other identifying information.

HIPAA allows use or disclose of personal health information without the patient's written authorization in some limited circumstances:

- to certain public health authorities for public health activities;
- to certain government authorities, including social service or protective service agencies, when the information relates to abuse, neglect, or domestic violence;
- to health oversight agencies for audits; licensure or disciplinary actions; civil, administrative, or criminal investigations, proceedings, or actions; or other oversight activities;
- in the course of any judicial or administrative proceeding in response to a court or administrative tribunal order, subpoena, discovery request, or other lawful process;
- for certain law enforcement purposes;
- for research purposes (with a board-approved waiver authorization);
- to avert a serious threat to health or safety;
- for specialized government functions, including some military and veterans activities; and
- for workers' compensation cases (45 C.F.R. § 164.512).

Entities may also disclose a decedent's personal information without written authorization (1) to coroners, medical examiners, and funeral directors and (2) for cadaveric organ, eye, or tissue donation purposes.

A detailed summary of the HIPAA laws and regulations can be found at <http://www.hhs.gov/ocr/privacy/hipaa/understanding/summary>.

As students and providers, you must undertake the proper safeguards to protect the privacy and security of PHI accessed in any clinical setting. You are to become familiar with and follow the policies and procedures on confidentiality and privacy for each health care system to which you are assigned.

Best Practices for Safeguarding PHI

Best practices for safeguarding PHI include, but are not limited to:

- Access patient information only if you need that information to complete your training.
- Share or discuss patient information only if it is necessary to complete your training and only in appropriate locations with individuals covered by the same Rule.
- Close patient room doors and curtains when discussing treatments or administering procedures.
- Be cognizant of your surroundings in shared spaces and speak softly.
- Avoid conversations in public spaces like elevators, shuttles, and cafeterias.
- You should never leave patient files unattended in a public area such as a conference room, even if you step away for only a few minutes.
- If you have access to electronic health records, never share login and password information and log off computer sessions when you will be away from a workstation.
- You should never take patient files off the premises except in circumstances when you have permission from the Clinical Coordinator and/or preceptor.
- You may not disclose PHI to anyone outside of the clinical or field site without first de-identifying the information (see below).
- If you become aware of, or suspect that there has been, an impermissible acquisition, access, use or disclosure of PHI in a manner not permitted under HIPAA, you should immediately report the circumstances of the suspected breach to your Clinical Coordinator.

De-Identifying PHI

The Privacy Rule does not restrict the use or disclosure of de-identified health information. De-identified health information neither identifies nor provides a reasonable basis to identify an individual. If data is de-identified in the manner prescribed by HIPAA, it is not PHI. Increasingly researchers are seeking and using de-identified clinical data for health system improvement activities. The Privacy Rule permits a CE or its BA to create and freely use and disclose information that is not individually identifiable by following the Privacy Rule's de-identification requirements. These provisions allow the entity to use and disclose information that neither identifies nor provides a reasonable basis to identify an individual.

The Rule provides two de-identification methods: 1) a formal determination by a qualified expert or 2) the removal of eighteen (18) specified individual identifiers as well as absence of actual knowledge that the remaining information could be used alone or in combination with other information to identify the individual.

Note that just removing the identifiers specified in the Privacy Rule may NOT make information de-identified. However, once PHI is de-identified in accordance with the Privacy Rule, it is no longer PHI, and thus may be used and disclosed, subject to any other applicable laws.

- Individual Identifiers
 - Names
 - Dates, except year
 - Telephone numbers
 - Geographic data
 - FAX numbers
 - Social Security numbers
 - Email addresses
 - Medical record numbers
 - Account numbers
 - Health plan beneficiary numbers
 - Certificate/license numbers
 - Vehicle identifiers and serial numbers including license plates
 - Web URLs
 - Device identifiers and serial numbers
 - Internet protocol addresses
 - Full face photos and comparable images
 - Biometric identifiers (i.e., retinal scan, fingerprints)
 - Any unique identifying number or code

If you are unable to de-identify PHI, you must discuss your need to use identifiable information with the Clinical Coordinator to determine necessity and the appropriate procedures.

Note: The HIPAA Rules provide a floor of federal protections for PHI. However, the Rules are not the only laws that address the protection of health information. In addition to HIPAA, certain Connecticut laws also provide protection for personal health information. Examples include laws that:

- prohibit persons from selling or offering to sell personal health information (CGS § 38a-988a) and
- prohibit the Department of Public Health (DPH) from publicly disclosing personally identifiable information about a patient in an institution, except in licensure proceedings (CGS § 19a-499).

Another law also establishes a bill of rights for individuals admitted to a nursing home, residential care home, or chronic disease hospital. This law (1) assures confidential treatment of patients' personal and medical records and (2) gives patients the right to approve or refuse the release of their records to any individual outside the facility, except in the case of a patient's transfer to another health care institution or as required by law or a third-party payment contract (CGS § 19a-550(b)).

The HIPAA Rules do not override such state laws that do not conflict with the Rules and offer greater privacy protections. If a state law is less protective than the HIPAA Rules, both apply.

By signing below, I certify that I have read, understand, and agree to abide by the MLS Program HIPAA Compliance policy.

I understand there are both educational and legal consequences if I violate this policy. Any reported violations of HIPAA will be reviewed by the Academic Standards Committee, which will make recommendations on discipline in accordance with the MLS Program Student Handbook.

Student: _____
PRINTED NAME

Student: _____
SIGNATURE

Date: _____

Confirmed by:

MLS Program Director: _____
PRINTED NAME

MLS Program Director: _____

Date: _____

APPENDIX C – Rotation-Specific Policies

Please refer to the separate [Clinical Practicum Student Handbook](#) for a full and detailed description of all student expectations and program policies regarding the clinical rotation experience.

APPENDIX D – MLSC Course Descriptions and Major Map

MLSC 1100 - Introduction to Medical Laboratory Science

This course is an introduction to the medical laboratory science (MLS) profession. The course will include the history of the clinical laboratory, the role of the medical laboratory scientist in today's healthcare environment, laboratory staffing levels and functions, laboratory departments, accrediting organizations and regulatory agencies, medical-legal issues, specimen collection and processing, quality assessment and quality control, laboratory safety, an introduction to basic and contemporary laboratory techniques and testing, and delivery of laboratory testing. **3 credits.**

MLSC 3300 - Clinical Immunology and Serology with Laboratory

Prerequisites: BIOL 2253, a grade of C or better in CHEM 1116. Co-requisite: MLSC 3301.

This course will focus on the theory and practice of clinical immunology and practical serology. It will include the basic principles and mechanisms of the human immune system and immune response. The course will emphasize immunologic and serologic procedures including specimen collection, the immunological manifestations of infectious diseases, immune disorders, transplantation, and the correlation of clinical laboratory data with the patient's diagnosis and treatment. **4 credits.**

MLSC 3301 - Laboratory - MLSC 3300

Co-requisite: MLSC 3300.

Required laboratory to be taken concurrently with MLSC 3300. The course will focus on the practice, application, and interpretation of diagnostic immunologic and serologic procedures. **0 credits.**

MLSC 3310 - Immunohematology and Transfusion Medicine

Prerequisites: BIOL 2260, MLSC 3330. Co-requisite: MLSC 3311.

This course will provide students with an introduction to the theory and practical application of methods that are required for routine blood bank practices in order to provide compatible blood components for transfusion. These include the collection, processing, storage, and transfusion of blood and blood components, blood group systems, blood group immunology, physiology and pathophysiology, serology and molecular testing, and transfusion practice. The course will also introduce immunohematology procedures that are used in the diagnosis and management of hemolytic disorders. **3 credits.**

MLSC 3311 - Laboratory - MLSC 3310

Co-requisite: MLSC 3310.

Required laboratory to be taken concurrently with MLSC 3310. Course will focus on the practice, application, and interpretation of procedures used in the clinical immunohematology laboratory. **0 credits.**

MLSC 3320 - Clinical Chemistry

Prerequisite: MLSC 3300. Co-requisite: MLSC 3321.

This course focuses on the theory, practical application, technical performance, and evaluation of basic laboratory skills, methods, analytical techniques, and on some common automated technologies used

in clinical chemistry. Emphasis will be placed on the interpretation, evaluation, and correlation of clinical laboratory data as it relates to the diagnosis, treatment, and monitoring of carbohydrate, renal, hepatic, protein and other nitrogen-containing compounds, heme-derivatives, cardiac, lipid/lipoprotein, major and minor electrolyte, enzyme, pancreatic-gastrointestinal and acid-base disorders. Other topics to be discussed include endocrinology, vitamins and nutrition, therapeutic drug monitoring, and toxicology. **4 credits.**

MLSC 3321 - Laboratory - MLSC 3320

Co-requisite: MLSC 3320.

Required laboratory to be taken concurrently with MLSC 3320. Course will focus on the practice, application, and interpretation of diagnostic procedures used in the clinical chemistry laboratory. **0 credits.**

MLSC 3330 - Clinical Mycology, Parasitology, and Virology

Prerequisite: MLSC 3301.

A thorough study of clinical parasitology, mycology, and virology. Included are taxonomy and structure, specimen collection and cultivation techniques, life cycles, reproduction, epidemiology and disease pathogenesis, microbial virulence, identification, and control. It will cover the correlation of clinical laboratory data with the patient's diagnosis and treatment. Emphasis will be placed on the analytical procedures for mycology, parasitology, and virology and post analytic procedures including reporting to Infection Control/Prevention and Public Health. **3 credits.**

MLSC 3340 - Laboratory Operations, Regulation, and Compliance

This course introduces the theory and evaluation of basic laboratory management principles in healthcare, including quality assessment (QA) and safety. The course will emphasize real world situations and applications to laboratory management including quality management (QM) and laboratory improvement initiatives, ethics, point-of-care, hiring, credentialing and personnel issues, laboratory regulations, proficiency testing, competency assessment and accreditation standards, quality control (QC), and laboratory information management (LIM). Professionalism, ethics, and continuing education will also be discussed as they relate to laboratory personnel. Students will be exposed to laboratory standard operating procedures, laboratory policies, and safety procedures. **3 credits.**

MLSC 3355 - Clinical Bacteriology for Medical Laboratory Science

Prerequisite: BIOL 3301. Co-requisite: MLSC 3356. Prerequisite or co-requisite: MLSC 3300.

This course will include the study of the most clinically important bacterial pathogens encountered in the clinical setting, and will emphasize the correlation of clinical laboratory data with the patient's diagnosis and treatment. Emphasis will be placed on use of organism characteristics to identify common bacteria (morphologic, cultural, and biochemical traits; pathogenesis, pathology, epidemiology, risk factors), the analytical procedures for bacteriology, susceptibility of microorganisms to various antimicrobial agents and reporting results to healthcare providers, Infection Control/Prevention and Public Health authorities. **4 credits.**

MLSC 3356 - Laboratory - MLSC 3355

Co-requisite: MLSC 3355.

Required laboratory to be taken concurrently with MLSC 3355. Course will focus on the practice, application, and interpretation of diagnostic procedures used in the clinical microbiology laboratory.

0 credits.

MLSC 3360 - Hematology with Laboratory

Prerequisites: BIOL 2260, MLSC 3300. Co-requisite: MLSC 3361.

This course will cover fundamental concepts in human hematology, including study of the production, function, and physiology of red and white blood cells, platelets, and bone marrow. Disorders of red blood cells and white blood cells will be discussed. An overview of manual and automated hematological test methods used in the diagnosis of blood cells disorders will be included. Emphasis is placed on correlating laboratory results with clinical conditions, applying quality assurance practices, and understanding the role of hematology testing in patient care and disease management. **4 credits.**

MLSC 3361 - Laboratory - MLSC 3360

Co-requisite: MLSC 3360.

Required laboratory to be taken concurrently with MLSC 3360. Course will focus on the practice, application, and interpretation of diagnostic procedures used in the clinical hematology laboratory.

0 credits.

MLSC 3370 - Phlebotomy and Sample Processing

Prerequisites: BIOL 2253.

In this course, students will be introduced to both the theory and the practice of specimen collection for clinical pathology testing (blood, urine, feces, and other body fluids), with emphasis on patient preparation, laboratory safety practices, and proper specimen handling. Other topics include quality assessment as it relates to specimen collection and handling; infection control, bloodborne pathogen and other federal safety regulations; sample transportation and processing; medical and legal ethics as they relate to phlebotomy and the clinical laboratory; and HIPAA and PHI. **3 credits.**

MLSC 4400 – Hemostasis, Urinalysis, and Body Fluid Analysis

Prerequisites: BIOL 2260, CHEM 1116. Co-requisite: MLSC 4401.

This course will cover the basic principles of hemostasis including the vascular component, platelet physiology and function, coagulation factors, fibrin clot formation, and fibrinolysis. Hereditary and acquired forms of hemorrhagic disorders and thromboembolic disease are examined along with the test procedures for their diagnoses and the initiation and testing methods of therapy. The course will also cover the physical, chemical, microscopic analysis, and disease states of urine and other body fluids. **4 credits.**

MLSC 4401 - Laboratory - MLSC 4400

Co-requisite: MLSC 4400.

Required laboratory to be taken concurrently with MLSC 4400. Course will focus on the practice, application, and interpretation of diagnostic procedures used in hemostasis and coagulation testing as well as urinalysis and body fluid analysis procedures. **0 credits.**

MLSC 4408 - Molecular Diagnostics

Prerequisite: CHEM 2201. Co-requisite: MLSC 4409. Prerequisite or co-requisite: BIOL 4461.

This course introduces molecular diagnostics (clinical molecular biology) by discussing the fundamentals of molecular biology and then exploring its clinical applications. Emphasis is placed on the molecular biological procedures used in medical laboratory science, including those used in the molecular detection of infectious agents that cause human disease, human identification, the diagnosis of inherited diseases, the diagnosis of cancer, and the determination of risk factors for the development of cancer. Topics include but are not limited to nucleic acid extraction, direct and amplified nucleic acid testing, hybridization, next generation sequencing, and the regulatory challenges with performing molecular testing in the clinical laboratory. Students will apply concepts learned in the associated laboratory to interpretation of clinical data. **3 credits.**

MLSC 4409 - Laboratory - MLSC 4408

Co-requisite: MLSC 4408.

Required laboratory to be taken concurrently with MLSC 4408. Course will focus on the practice, application, and interpretation of molecular pathology procedures. **0 credits.**

MLSC 4410 - Clinical Seminar

Prerequisites: MLSC 3310, MLSC 3320, MLSC 3330, MLSC 3340, MLSC 3355, MLSC 3360, MLSC 3370, MLSC 4400.

This course will review all the medical laboratory science required courses completed prior to entering the final semester of the program and will prepare medical laboratory science students for the ASCP certification exam. Test-taking and content review strategies will be discussed and practiced. Student performance on practice exams will be reviewed to determine areas of weakness. **2 credits.**

MLSC 4420 - Clinical Seminar II Education – Note: this course to be discontinued; no longer required.

Prerequisites: MLSC 4410, matriculating student in the medical laboratory science program. Prerequisite or co-requisite: MLSC 4430.

This course will prepare medical laboratory science students for the ASCP certification exam. Students will be provided with testing strategies and practice exams using various materials. 3 credits.

MLSC 4429 - Clinical Practicum I – Clinical Chemistry

Prerequisite: MLSC 3300, MLSC 3320

This component of the MLS program prepares students for practice in a clinical chemistry laboratory. It involves a rotation in the clinical laboratory at an affiliated licensed clinical laboratory hospital and is designed to enhance the student's entry level competencies. During the rotation the student will be exposed to the daily operations of the clinical chemistry laboratory under the supervision of an experienced medical laboratory scientist. **2 credits.**

MLSC 4430 - Clinical Practicum II – Hematology

Prerequisites: MLSC 3360, MLSC 4400.

This component of the MLS program prepares students for practice in a clinical hematology laboratory. It involves a rotation in the clinical laboratory at an affiliated licensed clinical laboratory hospital and is designed to enhance the student's entry level competencies. During the rotation the student will be exposed to the daily operations of the clinical hematology laboratory under the supervision of an experienced medical laboratory scientist. **2 credits.**

MLSC 4431 - Clinical Practicum III – Transfusion Services

Prerequisites: MLSC 3310.

This component of the MLS program prepares students for practice in a clinical immunohematology laboratory. It involves a rotation in the clinical laboratory at an affiliated licensed clinical laboratory hospital and is designed to enhance the student's entry level competencies. During the rotation the student will be exposed to the daily operations of the clinical immunohematology laboratory under the supervision of an experienced medical laboratory scientist. **2 credits.**

MLSC 4432 - Clinical Practicum IV – Clinical Microbiology

Prerequisites: MLSC 3330, MLSC 3355

This component of the MLS program prepares students for practice in a clinical microbiology laboratory. It involves a rotation in the clinical laboratory at an affiliated licensed clinical laboratory hospital and is designed to enhance the student's entry level competencies. During the rotation the student will be exposed to the daily operations of the clinical microbiology laboratory under the supervision of an experienced medical laboratory scientist. **2 credits.**

MLSC 4450 - Capstone project

Prerequisites or co-requisites: HLTH 2250, MLSC 4410.

This course involves the completion of a research project in any area of the clinical laboratory. This project allows students to integrate and apply what has been learned during the MLS program and/or during the clinical rotation experience. Emphasis is on research design, process, measurement, regulatory issues, and ethics, as used by investigators. **3 credits.**

BS MLS Program Course Map – 2026-2027 Catalog Year

Full-time enrollment is the standard expectation.

CODE	FALL	CR	GRADE	CODE	SPRING	CR	GRADE
CC 1.1	ENGL 1112/13/14 Sem Acad Inquiry	3		MR	CHEM 1116 General Chem II w/lab	3	
MR	CHEM 1115 General Chem I w/lab	3		MR	CHEM 1118 Lab - CHEM 1116	1	
MR	CHEM 1117 Lab - CHEM 1115	1		CC 7.2	HLTH 2200 Intro US Healthcare (Do not take W section)	3	
CC 3.1	MATH 1110 College Algebra or MATH 1115 Precalcul	3		CC 5.1	HLTH 1141 Pandemics and Public Health Threats	3	
CC 4.1	BIOL 2253 Biology I for Science Majors	4		CC 7.1	The Individual and Society	3	
CC 4.1	BIOL 2255 Lab - BIOL 2253	0		MR	MLSC 1100 Intro Med Lab Science	3	
MR	HLTH 1175 Fundamentals of Med Terms	1					
		15				16	
MR	MATH 2228 or HLTH 2240 (Statistics)	3 - 4		MR	BIOL 3311 Molecular Biology w/ Lab	4	
MR	HLTH 2250 Health Science Research Methods & Des	3		MR	BIOL 3313 Lab - BIOL 3311	0	
MR	BIOL 3301 Microbiology with Lab	4		CC 6.1	Historical Perspectives	3	
MR	BIOL 3302 Lab - BIOL 3301	0		CC 9.1	Perspectives on Creative Arts	3	
MR	BIOL 3306 Genetics	3		MR	CHEM 2201/2203 Organic Chemistry I w/ Lab	3	
CC 2.1	COMM 1130 Communication	3		MR	CHEM 2203 Lab - CHEM 2201	1	
				CC5.2	HLTH 2230 Bioethics	3	
	SEMESTER TOTAL:	15 - 16			SEMESTER TOTAL:	17	
CC4.2	BIOL 4461 Biochemistry with lab ♦	3		MR	MLSC 3320 Clinical Chemistry with lab	4	
CC4.2	BIOL 4462 Lab - BIOL 4461	1		MR	MLSC 3321 Lab - MLSC 3320	0	
MR	MLSC 3300 Clinical Immunology and Serology	4		MR	MLSC 3360 Hematology with lab	4	
MR	MLSC 3301 Lab - MLSC 3300	0		MR	MLSC 3361 Lab - MLSC 3360	0	
MR	MLSC 3340 Lab Ops, Regulation and Compliance [W	3		MR	MLSC 3310 Immunohematology and transfusion medic	3	
CC5.2	MLSC 3370 Phlebotomy/Sample Processing	3		MR	MLSC 3311 Lab - MLSC 3310	0	
				MR	MLSC 3330 Clinical Mycology, Parasitology, Virology	3	
				NOTE: This semester cannot be modified without specific advisor approval.			
	SEMESTER TOTAL:	14			SEMESTER TOTAL:	14	
UE	Elective	3		MR	MLSC 4450 Capstone Project [W course]	3	
CC 8.1	DIET 1175 Food/Nutr/Culture (Do not take W section)	3		MR	MLSC 4410 Clinical Seminar Education	2	
MR	MLSC 4400 Hemostasis/UA/BF	4		MR	MLSC 4429 Clinical practicum - Clinical Chemistry (ex	2	
MR	MLSC 4401 Lab - MLSC 4400	0		MR	MLSC 4430 Clinical practicum - Hematology (ex ed)	2	
MR	MLSC 3355 Clinical Bacteriology for Med Lab Sci wi	4		MR	MLSC 4431 Clinical practicum - Transfusion Services	2	
MR	MLSC 3356 Lab - MLSC 3355	0		MR	MLSC 4432 Clinical practicum - Clinical Microbiology (	2	
MR	MLSC 4408 Molecular Diagnostics	3					
MR	MLSC 4409 Lab - MLSC 4408	0		NOTE: This semester cannot be modified without specific advisor approval.			
	SEMESTER TOTAL:	17			SEMESTER TOTAL:	13	
					TOTAL CREDITS:	121 - 122	

APPENDIX E – Program Faculty

Primary Program Faculty:

Beth Rawson, MS, MLS(ASCP)^{CM}SH^{CM}SCYM^{CM}

Program Director, Clinical Assistant Professor

Email: brawson@newhaven.edu

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