



University of New Haven

SCHOOL OF HEALTH SCIENCES

# UNIVERSITY OF NEW HAVEN

BACHELOR OF SCIENCE

# MEDICAL LABORATORY SCIENCE



## Degree Options

### Post-Baccalaureate

Students who already hold a B.S. in the biological, forensic, chemical, or physical sciences have the option to earn a second bachelor's degree in Medical Laboratory Science in as few as two years, thanks to the fact they have already met many of the prerequisites for the program. We also offer an entry-level master's program in Medical Laboratory Science, which is designed to grant the student a graduate degree while completing the necessary program-specific coursework.

In both options, students complete clinical rotations during their final semester that give them invaluable hands-on experience.

At the conclusion of both programs, students are eligible to take the national certification exam to qualify as a medical laboratory scientist. Most employers require certification to work as a medical laboratory scientist in a clinical laboratory. With a critical nationwide shortage of certified medical laboratory scientists, market demand has resulted in increased salaries and excellent job placement.

For more information or to arrange a visit, contact

Office of Undergraduate Admissions

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The University of New Haven has been recognized as one of **The 389 Best Colleges** in the country by *The Princeton Review*.



To learn more, scan the QR code or visit: [newhaven.edu/mls](https://newhaven.edu/mls)

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Medical laboratory scientists are educated to work in clinical chemistry, hematology, immunohematology, immunology, and microbiology with various subspecialties in each of those major areas.

Our program of study is designed to provide the knowledge and technical skills necessary to qualify an individual for work in a diagnostic clinical laboratory, in research, or in industry. Students complete two years of pre-professional courses in science and general education and two years of professional medical laboratory science (MLS) coursework. The professional coursework includes didactic courses, student laboratory instruction, and clinical experience rotations.

## Why Medical Laboratory Science?

Laboratory analysis by medical laboratory scientists plays a critical role, along with that of the physician, in disease diagnosis, treatment, and health maintenance. Medical laboratory scientists are professionals who are prepared not only to produce laboratory data but also to assure the quality of the data, compare and select laboratory methods, advise other healthcare professionals on the data's validity, and supervise laboratory personnel.

If you love the sciences and want an opportunity to help physicians and patients with your knowledge, this major may be ideal for you.

## Did you know?

### EMPLOYMENT DEMAND:

Expected to grow by more than **7%** between 2021 and 2031

### EMPLOYMENT SETTINGS:

Hospitals, urgent care centers, diagnostic laboratories, research organizations

### AVERAGE SALARY:

**\$71,000** per year\*

\*According to the Bureau of Labor Statistics.

\*According to the American Society for Clinical Pathology's 2019 Wage Survey of Medical Laboratories in the U.S.

Medical laboratory scientist ranks as the **#1 Healthcare Support Job** and **#21** in the top 100 overall jobs list, according to the *U.S. News & World Report*.



## Medical Laboratory Science at the University of New Haven

The University of New Haven is known throughout the region as a top university for educating students in the laboratory sciences. Our biological and chemical sciences faculty and facilities are top notch. Our B.S. in Medical Laboratory Science (MLS) focuses on preparing you successfully for the workplace and your American Society for Clinical Pathology (ASCP) certification exam. It is a priority of the MLS program to ensure quality clinical rotation experiences for students so they are prepared to begin clinical practice.

Clinical affiliates of the MLS program at the University of New Haven provide hands-on training for MLS students. These institutions' goal is to assist our students in completing their education by offering a variety of clinical laboratory experiences and exposure to professional, academic, and medical environments. Our current clinical sites for MLS student rotations are at the following facilities:

- Yale New Haven Health System
- Veterans Administration Medical Center (West Haven, Conn.)
- Hartford Healthcare
- Stamford Health
- Griffin Health
- NuVance Health

## 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. Students who complete our program receive a Bachelor of Science in Medical Laboratory Science from the University of New Haven and are qualified to take a certification examination administered by the ASCP Board of Certification (BOC).

## Internships and Careers

The University of New Haven considers internships to be a critical component of the educational process. We strive to successfully match an intern with the most appropriate work environment. We understand that all three parties in the internship relationship – the University, the student, and the internship location – must devote significant time to make it work. This balancing act, when achieved, results in a quality internship that can lead to developing a strong future employee.

Medical laboratory science will enable you to work in a variety of healthcare settings:

- Hospitals
- Blood banks
- Urgent care centers
- Medical and diagnostic laboratories
- Research organizations

## Curriculum

Students prepare to work in the medical laboratory science field by developing comprehensive knowledge of the biological, physical, and health sciences as they relate to laboratory medicine.

First, students take a wide range of courses to prepare them to work in the healthcare industry. The School of Health Sciences core curriculum provides students with a broad, interdisciplinary understanding of how prevention, health policy, and person-centered care affect all health professionals.

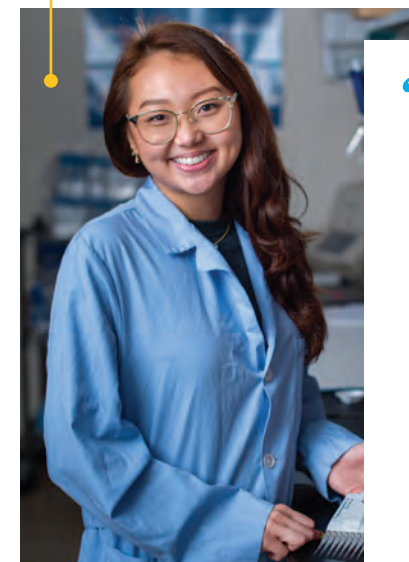
In their sophomore year, students begin taking biological and physical sciences coursework to prepare for their preclinical MLS classes.

As a junior, students complete a full year of preclinical MLS courses that cover the major areas of medical laboratory work.

Over the course of their last two semesters, students complete the remaining preclinical MLS coursework and prepare for entry into their clinical rotations. All students complete a clinical internship at one of our affiliate laboratories, where they practice their skills under the supervision of an experienced medical laboratory scientist.

### FEATURED COURSES

- Clinical Bacteriology
- Clinical Chemistry
- Clinical Mycology, Parasitology, and Virology
- Clinical Practicum
- Clinical Seminar
- Coagulation & Urinalysis
- Hematology
- Immunohematology
- Immunology and Serology
- Phlebotomy and Sample Processing



*“I always wanted to work in the medical field, and the University is unique in that it allows students to conduct independent research in their first year as part of the SURF program. As a rising sophomore, I was in the lab doing what students at most other universities don't get to do until their junior year. Through my clinical rotations with Yale-New Haven Hospital, I've had the opportunity to observe clinical chemistry theories and automated instruments and even engage in hands-on practice with some of the protocols they perform there.”*

**ALICE YI '22**  
B.S. in Medical Laboratory Science