



Medical Laboratory Technology AAS

The North Hennepin Community College Associate of Applied Science Medical Laboratory Technology (MLT) Program is designed to prepare students for a career in the medical laboratory. Medical Laboratory Technology is a rewarding, dynamic, and in-demand career with many opportunities for growth. By performing testing on blood and body fluids using highly specialized skills and complex instrumentation, MLTs provide information that is vital to both diagnosing and treating disease. In fact, over 70% of all health care decisions are made based on laboratory results.

Medical Laboratory Technology Curriculum

Curriculum

General Education Courses

Course Code	Title	Course Outlines	Goal Areas	
1 course from BIOL1001, BIOL1101				
BIOL 1001	Biology I or	View-BIOL 1001	n/a	4
BIOL 1101	Principles of Biology I	View-BIOL 1101	n/a	4
BIOL 1120	Human Biology	View-BIOL 1120	n/a	3
CHEM 1061	Principles of Chemistry I	View-CHEM 1061	n/a	
CHEM 1062	Principles of Chemistry II	View-CHEM 1062	n/a	4
COMM 1110	Principles of Interpersonal Communication	View-COMM 1110	n/a	3
College Writing I				
ENGL 1200	Gateway College Writing or	View-ENGL 1200	n/a	4
ENGL 1201	College Writing I	View-ENGL 1201	n/a	4
MATH 1150	College Algebra	View-MATH 1150	n/a	3
PHIL 1020	Ethics	View-PHIL 1020	n/a	3

**Program
Courses
- MLT
Didactic
Courses**

Course Code	Title	Course Outlines	Goal Areas
MLT 1000	Clinical Laboratory Basics	View-MLT 1000	n/a
MLT 1100	Clinical Urinalysis/Body Fluids	View-MLT 1100	n/a
MLT 1200	Clinical Laboratory Instrumentation	View-MLT 1200	n/a
MLT 1250	Clinical Immunology	View-MLT 1250	n/a
MLT 2050	Clinical Hematology	View-MLT 2050	n/a
MLT 2080	Clinical Microbiology	View-MLT 2080	n/a
MLT 2100	Clinical Chemistry	View-MLT 2100	n/a
MLT 2150	Clinical Immunohematology	View-MLT 2150	n/a

Program Courses - MLT Clinical Courses

Course Code	Title	Course Outlines	Goal Areas	Credits
MLT 2310	Applied Phlebotomy	View-MLT 2310	n/a	1
MLT 2320	Applied Hematology	View-MLT 2320	n/a	4
MLT 2330	Applied Coagulation	View-MLT 2330	n/a	1
MLT 2340	Applied Urinalysis	View-MLT 2340	n/a	1
MLT 2350	Applied Microbiology	View-MLT 2350	n/a	2
MLT 2360	Applied Immunohematology	View-MLT 2360	n/a	2
MLT 2380	Applied Chemistry	View-MLT 2380	n/a	2

NHCC Residency and GPA

15 Credits must be earned at NHCC

Total Credits Required

60

Notes

Day or evening option for MLT didactic courses. The program concludes with a clinical component that is only offered on the day shift.

Program Overview

2022-2023

The North Hennepin Community College Associate of Applied Science Medical Laboratory Technology (MLT) Program is designed to prepare students for a career in the medical laboratory. Medical Laboratory Technology is a rewarding, dynamic, and in demand career with many opportunities for growth. By performing testing on blood and body fluids using highly specialized skills and complex instrumentation, MLTs provide information that is vital to both diagnosing and treating disease. In fact, over 70% of all health care decisions are made based on laboratory results. Through NHCC's MLT program, students will gain both knowledge and hands-on experience, making them highly desirable employees. Coursework includes theory in phlebotomy, urinalysis, clinical chemistry, hematology, immunology, microbiology, and immunohematology. Practical experience will be gained in student laboratories at NHCC and through a 19week clinical experience during the program's final semester. Upon completion of the program, students will be eligible to sit for the American Society of Clinical Pathology Board of Certification Exam. All on campus MLT courses are offered in both day and evening formats. However, in the final semester students are required to participate in clinical rotations, which are only offered during the day Monday-Friday. Admission into the MLT Program requires a separate application and entrance exam. The selection process is competitive, and the college may not be able to accept all applicants that meet the minimum standards. MLT application deadline is March 1st for the fall semester start.

The Associate of Applied Science in Medical Laboratory Technology is designed to articulate to: Saint Cloud State University B.S. in Medical Laboratory Science degree

Completion of current Minnesota Human Services Background Check including fingerprints. If an applicant has been arrested, charged, or convicted of any criminal offense, he or she should investigate the impact that the charge or conviction may have on his or her chances of employment and the students chances to obtain federal, state, and other higher education financial aid (by Minnesota Statute 135A. 157). If the applicant refuses, or is disqualified because of the background study, the applicant will be unable to successfully complete the requirements of the program.

Program Outcomes

Knowledge of Human Cultures and the Physical and Natural World:

- Develop entry level medical laboratory technology skills in a clinical setting to prepare them for the workplace.

Intellectual and Practical Skills:

- Develop and demonstrate professionalism and concern for the customer.
- Develop competence in the theoretical knowledge and technical skills necessary for proficient performance of clinical laboratory procedures.
- Utilize effective interpersonal communication skills with customers and coworkers.

- Utilize effective written communication skills appropriate for the professional setting.
- Develop competence in the theoretical knowledge necessary to prepare for the national certification examination of the profession.

Personal and Social Responsibility and Engagement:

- Value participation in continuous professional development.
- Develop awareness of the role and responsibilities of the medical laboratory technician as a member of the health care team.

Integrative and Applied Learning:

- Apply critical thinking skills to correlating laboratory findings and common disease processes.
- Apply critical thinking skills to learning new techniques and procedures.

Upon successful completion of the program, the student will be eligible to sit for the national certification examination.

Upon successful completion of the program, students may be eligible to transfer to the B.S. in Medical Laboratory Science program at St. Cloud State University.

NAACLS requires accredited programs to meet the following program outcomes:

70% Graduation Rate (This is calculated based on students who began and completed the second half of the program.)

75% Board of Certification Pass Rate (This is calculated based on students who completed their exam within 1 year of graduation.)

70% Job Placement Rate (This is based on graduates that either entered the field or continued with higher education in the field.)

MLT outcomes for our program at NHCC are listed below. The BOC pass rates, and job placement rates, reflect students that graduated during the specified period of time:

	7/1/18 – 6/30/19	7/1/19 – 6/30/20	*7/1/20 – 6/30/21	Average
Graduation Rates	100%	100%	100%	100%
Board of Certification pass rates	100%	100%	86%	94%
Job placement rates	100%	100%	100%	100%

Career Opportunities

Information on careers, including salary and employment outlook data, is available at Minnesota State and the Bureau of Labor Statistics websites:

careerwise.minnstate.edu and www.bls.gov.

Transfer Information

If you are planning on transferring to another institution, follow the guidelines available on our transfer resources web page to help you plan the process: [Transfer Information](#)

Degree Information

The Associate in Applied Science (A.A.S.) degree is intended for those students who plan to use the competence gained through their degree for immediate employment or enhancing current career skills. The A.A.S. degree includes a minimum of 20 semester credits in general education selected from at least three of the ten goal areas of the Minnesota Transfer Curriculum (MnTC). The MnTC courses within the A.A.S. programs transfer to any Minnesota State College or University. Many of the A.A.S. degree programs have articulation agreements with four year institutions for transfer of the program.

A student shall:

- Earn a minimum of 6071 semester credits as required in the program with a grade point average of 2.00 (C) or above in courses taken at North Hennepin Community College. Specific programs may have additional requirements or a higher minimum grade point average.
- Earn a minimum of 15 semester credits at North Hennepin Community College.
- Earn 20 credits in at least 3 MnTC goal areas

Completion of an A.A.S. degree fulfills the Goal Area 2 requirement of the Minnesota Transfer Curriculum (MnTC).

Developmental Courses

Some students may need preparatory course(s) in Math and/or English. Courses numbered below 1000 will not apply toward a degree.

Equal Opportunity Employer and Disability Access Information

North Hennepin Community College is a member of Minnesota State Colleges and Universities system and an equal opportunity employer and educator. This document is available in alternative formats to individuals with disabilities by calling 7634930555 or through the Minnesota Relay Service at 18006273529.

Accreditation

North Hennepin Community College is accredited by the:
Higher Learning Commission of the North Central Association of Colleges and
Schools
30 N. LaSalle Street, Suite 2400
Chicago, IL 60602-2504
1-800-621-7440

Program Accreditation

This program is accredited by the National Accrediting Agency for Clinical
Laboratory Sciences (NAACLS):

NAACLS
5600 N River Road, Suite 720
Rosemount, IL 60018-5119
Telephone: 773-714-8880
Fax: 773-714-8886

E-mail: info@naacls.org

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