

AAS: Medical Laboratory Technology

2020-2021

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 19-week 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

General Education Courses

All General Education courses must be completed with a grade of C or better.

Course No.	Course Title	Credits
BIOL1120	Human Biology	3
CHEM1061	Principles of Chemistry I	4
CHEM1062	Principles of Chemistry II	4
COMM1110	Principles of Interpersonal Communication	3
MATH1150	College Algebra	3
PHIL1020	Ethics	3
College Writing I:		
ENGL1200	Gateway College Writing <i>or</i>	4
ENGL1201	College Writing I	4
I course from BIOL1001, BIOL1101:		
BIOL1001	Biology I <i>or</i>	4
BIOL1101	Principles of Biology I	4

Program Courses - MLT Didactic Courses

All MLT Program Courses courses must be completed with a grade of C or better.

Course No.	Course Title	Credits
MLT1000	Clinical Laboratory Basics	1
MLT1100	Clinical Urinalysis/Body Fluids	2
MLT1200	Clinical Laboratory Instrumentation	1
MLT1250	Clinical Immunology	2
MLT2050	Clinical Hematology	4
MLT2080	Clinical Microbiology	4
MLT2100	Clinical Chemistry	4
MLT2150	Clinical Immunohematology	3

Program Courses - MLT Clinical Courses

All MLT Clinical Courses must be completed with a grade of C or better.

Course No.	Course Title	Credits
MLT2310	Applied Phlebotomy	1
MLT2320	Applied Hematology	2
MLT2330	Applied Coagulation	1

MLT2340	Applied Urinalysis	1
MLT2350	Applied Microbiology	2
MLT2360	Applied Immunohematology	2
MLT2380	Applied Chemistry	2

NHCC Residency and GPA

Course No.	Course Title	Credits
15 Credits must be earned at NHCC:		
2.00 overall GPA for NHCC courses		

Total Credit Required 60

Degree Requirements

2.00 overall GPA for NHCC courses

Note: This program requires a 2.0 minimum grade for courses used by its requirements unless otherwise specified.

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.

Career Opportunities

Hospitals, Medical Clinics, Pharmaceutical Companies, Government Agencies, Chemical, and Industrial Companies, Medical Device Companies and Private Labs

Program Accreditation

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) 5600 N. River Road, Suite 720 Rosemont, IL 60018

Notes

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

Career Opportunities

Information on careers, including salary and employment outlook data, is available on the iseek and Bureau of Labor Statistics websites: www.iseek.org 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 60-71 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 763-493-0555 or through the Minnesota Relay Service at 1-800-627-3529.

Accreditation

North Hennepin Community College is accredited by the: Higher Learning Commission
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Chicago, IL 60602-2504
1-800-621-7440