

NHCC MLT to SCSU MLS Partnership Overview



A Perfect Blend of Science, Medicine and Biotechnology



St. Cloud State University Contact:

Louise Millis, Associate Professor Biology, MS, MLS(ASCP)cm

- Biology Faculty: St. Cloud State University (SCSU)
- Advisor: Medical Laboratory Science 3+1 Bachelor's Program
- Program Director: Medical Laboratory Science 2+2 Completion Program
- Program Director: Histotechnician Certificate

North Hennepin Community College Contact:

Ashley Martin, Medical Laboratory Technology Faculty, MA

Have you ever wondered

- How do doctors diagnose disease?
- How do the results from the many specimens sent to medical laboratories provide diagnostic information on patient care?
- Answer: Careers in the Clinical Laboratory

Do you see yourself here?











American Society for American Society for Clinical Pathology (ASCP), Chicago, Il Clinical Pathology (ASCP), Chicago, IL

Who Works in a Clinical Laboratory?

Post HS	Phlebotomist (PBT)*
Associate (2 yr. degree)	Medical Laboratory Technician (MLT)*
	Histotechnician (HT)**
Baccalaureate (4 yr. degree)	Medical Laboratory Scientist (MLS)***
	Cytotechnologist (CT)
	Histotechnologist (HTL)
Masters, PhD, MD	Directors, Managers, Coordinators

^{*}Program are available by NHCC

^{**}Certificate being offered by SCSU starting fall 2020

^{***}Program offered by SCSU

Where Do Clinical Laboratory Professionals Work?

- Hospital Laboratory
- Physician Office Laboratory
- Public Health Laboratory
- Commercial or Reference Laboratory
- Fertility Clinic
- Pharmaceutical & Chemical Industries
- Biotechnology Companies
- Research & Teaching Institutions
- Veterinary Laboratory
- Cosmetic & Food Industry
- Government Agencies

Career Advancement

- Medicine
- Dentistry
- Public Health
- Biomedical Technology
- Heath Care Management & Administration
- Medical Informatics
- Basic Science & Research
- Sales, Marketing, Product Development
- Law & Public Advocacy
- Education
- Many others

Why Consider a Career in the Clinical Laboratory?

- Clinical laboratory professionals are in high demand
- Exciting and rewarding profession
- Multiple & flexible career opportunities
- Transferable skills to advance your career
- Flexible work schedule
- Competitive wages

St Cloud State University (SCSU)

Medical Laboratory Science

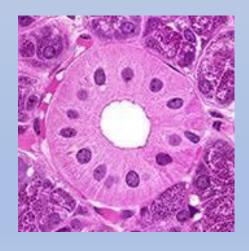
Bachelor of Science (BS)

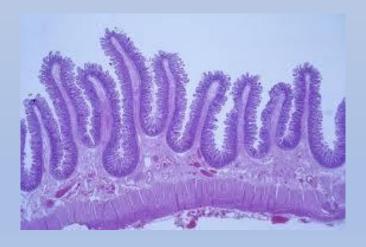
- 3+1 Traditional Program: Run on SCSU campus
 - 3 years of college course work + 9 to 11 month clinical internship
- 2+2 Completion Program: RUN ON THE NHCC CAMPUS
 - Student returns to school after completing a Medical Laboratory Technician (MLS) 2 year degree
 - 2 years of course work that includes the clinical internship (students must be employed as an MLT

St Cloud State University (SCSU)

Histotechnician Certificate

- New program
- Starting Fall 2020
- Requires a 2 or 4 year degree in Biology, Chemistry, MLT, or MLS







Education

- Clinical laboratory professionals have both academic and hospital laboratory training
- Programs a blend of didactic and student lab course work plus clinical internships

Departments of the Clinical Laboratory

- Immunohematology
- Microbiology
- Hematology
- Toxicology
- Chemistry
- Forensics
- Molecular
- Urinalysis
- Histology
- others



MLT and MLS

Professionals who:

- Analyze blood, body fluids, tissues, and cells to determine the presence or absence of disease
- Identify bacteria, parasites, and other microorganisms
- Assay the chemical content of fluids
- Match blood for transfusions
- Assess levels of therapeutic drugs in the blood
- Utilize the latest in biomedical techniques and instrumentation

Vital Work

- Important member of the health care team 3rd largest group of health professionals
- Responsible for 70% to 80% of all diagnostic and treatment decisions made by physicians
- Over 7 billion clinical lab tests performed annually
- Modern medicine could not function without clinical laboratory professionals
- "If we disappeared for a day or two, health care would grind to a halt (Dr. Wells*)."

National Employment Outlook MLT & MLS – HIGHER IN MN

- Employment (2016) 335,700 jobs
- Median wage (2016) \$38,950 (MLT) & \$61,070 (MLS)
- Projected growth (2016-2026) +13% MLT & MLS
- Projected annual job openings (2016-2026) 42,700
- MLS ranked 24th MLT ranked 17th in job satisfaction (Bureau of Labor Statistics Top 200)

Certification & Beyond

• Completion of NAACLS accredited program didactic courses + clinical internship

Certification Exam

Continuing Education

Chose a Career that wants you

• Do you see yourself here?











We see you here.

Questions?

- We have answers!
- Give us a call, an email (best), or just stop by

SCSU - Wick 269 :lmillis@stcloudstate.edu, 320-308-5438

NHCC - BHCC 235 :lmillis@nhcc.edu, 763-424-0963

Further Information

American Society for Clinical Pathology

https://www.ascp.org/content/careers

National Accrediting Agency for Clinical Laboratory Science

https://naacls.org/

American Society for Clinical Laboratory Science

https://careercenter.ascls.org/