Medical Laboratory Technician

Program Description
A Medical Laboratory Technician performs routine clinical laboratory tests ranging from waived and point-of-care testing to complex testing that encompasses all major areas of the clinical laboratory.

These medical professionals assist the physician by providing invaluable information for the prevention, diagnosis, and treatment of disease through the performance and evaluation of scientific analysis of blood and other body fluids. They are dedicated and self-motivated to do their part in providing the highest quality patient care.

The goals of the program are to provide academic and clinical education for students to acquire the knowledge, skills, and attitudes necessary for the practice of medical laboratory technology. The program structure consists of a combination of classroom, laboratory and clinical internship experience. Upon successful completion of the program the student earns an A.A.S. degree.

Program Core Competencies
1. Demonstrate standard safety practices designed for the medical laboratory professions.
2. Perform basic phlebotomy procedures that include both venipuncture and capillary techniques.
3. Demonstrate multitasking skills where a wide variety of testing procedures are performed.
4. Demonstrate standard quality assurance practices to ensure quality patient outcomes.
5. Demonstrate proper procedures in maintenance, calibration, operation, and troubleshooting of laboratory analyzers and equipment.
6. Correlate pathologic conditions and the laboratory's role in diagnosis and treatment.

Basic Entrance Requirements
1. College ready based on scores from Accuplacer in math, reading and sentence skills. If score is less than 77.5 in Reading, less than 85.5 in Sentence Skills, or less than 75.5 in Elementary Algebra, the student is required to take college readiness courses.
2. Transcript verifying college level courses with a grade of "C" (2.0) or better in the following courses (or transferable equivalent):
   a. ENGL 100 Composition
   b. CHEM 108 Introduction to Chemistry
   c. BIOL 160 Human Biology and BIOL 161 Human Biology Lab or BIOL 220 Human Anatomy
   d. HLTH 1000 Medical Terminology
   e. OTEC 1001 Computer Software for College

Program Admission
Application to the MLT program is a separate process from admission to the college. The MLT Program accepts applications once a year from January 1 to March 31. For more information on how to apply, contact Student Affairs Center.

Student Background Studies
Minnesota law requires that any person who provides services that involve direct contact with patients and residents at a health care or child care facility licensed by the Minnesota Department of Health have a background study conducted by the state. An individual who is disqualified from having direct patient contact as a result of a background study, and whose disqualification is not set aside by the Commissioner of Health, will not be permitted to participate in a clinical internship in a Minnesota licensed health care or child care facility. Failure to participate in a clinical internship required by the academic program could result in ineligibility to qualify for a degree from that program.

Accreditation
NAACLS (National Accrediting Agency for Clinical Laboratory Sciences)
5600 N River Road, Suite 720
Rosemont, IL 60018-5119
(773)-714-8880

Degree
Medical Laboratory Technician
A.A.S. Degree

Diagnostic Services

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2011-2012 Program/Majors
# Medical Laboratory Technician

## A.A.S. Degree

### Internship

During the internship experience, the student continues their education in a hospital or clinic laboratory under the supervision of a certified Clinical Laboratory Scientist. The experience allows the student to apply knowledge learned in the didactic phase in an employment-like setting. Students rotate through all areas of the clinical laboratory gaining experience and practice in basic clinical laboratory techniques, procedures and phlebotomy.

### Offered on Faribault and North Mankato Campus

**Admission Date:** Fall Semester

**Admission Process**

Application to the Medical Laboratory Technician program requires a separate application process from admission to the college. Applicants must have completed or be in the process of completing the following sequence of courses with a grade of "C" or higher:

- HLTH1000 Medical Terminology (1 credit)
- OTEC1001 Computer Software for College (2 credits)
- ENGL100 Composition (4 credits)
- CHEM108 Introduction to Chemistry (4 credits)
- BIOL160 Human Biology (3 credits)
- BIOL161 Human Biology Lab (1 credit)

**NOTE:** BIOL 160 and BIOL 161 are taken together OR BIOL 220 Human Anatomy (4 credits)

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### Medical Laboratory Technician A.A.S. Degree (72 Credits)

#### REQUIRED TECHNICAL COURSES

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MDLT1810</td>
<td>Laboratory Techniques and Orientation</td>
<td>3</td>
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<tr>
<td>MDLT1815</td>
<td>Hematology I</td>
<td>3</td>
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<tr>
<td>MDLT1820</td>
<td>Coagulation</td>
<td>2</td>
</tr>
<tr>
<td>MDLT1825</td>
<td>Urinalysis/Body Fluids</td>
<td>3</td>
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<tr>
<td>MDLT1830</td>
<td>Hematology II</td>
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<td>MDLT1835</td>
<td>Immunology</td>
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<td>MDLT2807</td>
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<td>MDLT2811</td>
<td>Microbiology I</td>
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<tr>
<td>MDLT2821</td>
<td>Microbiology II</td>
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</table>

*Clinical Internship course sequence*

- MDLT2825 Clinical Practice & Orientation 1
- MDLT2900 Clinical: Hematology 3
- MDLT2901 Clinical: Chemistry 3
- MDLT2907 Clinical: Urinalysis and Body Fluids 1
- MDLT2903 Clinical: Immunohematology 4
- MDLT2904 Clinical: Immunology 1
- MDLT2905 Clinical: Microbiology 3
- MDLT2906 Clinical: Coagulation 1

#### REQUIRED LIBERAL ARTS & SCIENCES

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL100</td>
<td>Composition</td>
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To complete an A.A.S. Degree, students must complete 19 MNTC credits from 3 of the 10 MNTC Goal Areas (combination of required and recommended). See pgs. 56-62 for more information. Courses must be selected in consultation with advisor/faculty.

*MNTC - Goal Area 1: Communications*

- HLTH1000 Medical Terminology 1
- OTEC1001 Computer Software for College 2

**OTHER REQUIRED COURSES**

Applicant must have completed or be in the process of completing the following Pre-MLT major curriculum with a grade of "C" (2.0) or higher.

- *Community CPR (Infant, Child, Adult)*
- BIOL160 Human Biology 3
- BIOL161 Human Biology Lab 1
- CHEM108 Introduction to Chemistry 4
- PSYC100 Introduction to Psychology 4

*Community CPR to be completed through the students place of employment or through their community.*

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**Course Descriptions**

See pages 226-278 to find course descriptions for the courses listed above.

**Online Options**

This program has an online option for one or more of its courses. The structure of the online program is a combination of general education and support courses and online lectures. In addition to the online lectures, this program requires attendance in scheduled "on-site" laboratory experiences. Hours and location can be coordinated to some degree for the convenience of each student. This requirement must be discussed with a faculty member to ensure a student can successfully complete the program. Contact an MLT faculty member for online availability. For more information visit online.southcentral.edu

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