

# PHLEBOTOMY TECHNICIAN CERTIFICATE - 16 CREDITS

## About this program

The Phlebotomy Technician program provides students with the training necessary for employment and advancement in the health care field. Upon satisfactory completion of the classroom training at the college, each student is assigned to an affiliating clinical site for five weeks of daytime phlebotomy clinical experience. During this period, the student performs phlebotomy and other related procedures under the direct supervision of a medical laboratory technician or technologist. Graduates of the one-semester Phlebotomy Technician program are eligible to take the Board of Certification examination of the American Society for Clinical Pathology (ASCP).

## Program outcomes

1. Collect and process biological specimens for analysis using established procedures, including patient identification.
2. Perform point of care testing according to laboratory policies and procedures, including troubleshooting unexpected results and instrument malfunction.
3. Practice safety and infection control at all times in the collection and processing of biological specimens for analysis.
4. Maintain accurate records for quality assurance and quality control.
5. Communicate professionally and maintain ethical standards with patients and other health care professionals.

## Curriculum overview

| <b>Crds</b> | <b>Requirement type</b>                      |
|-------------|--|
| 13          | Required courses                             |
| 3           | Restricted electives in special requirements |
| 16          | <b>Total</b>                                 |

**Developmental courses note:** A student may be required to enroll in developmental courses in reading, writing and math. A student's scores on the Accuplacer assessment will determine enrollment in developmental courses. The purpose of developmental courses is to prepare students for the demands of a college-level curriculum. *Credits may vary.*

**Accreditation:** Minnesota State Community and Technical College is accredited by the Higher Learning Commission, a regional accreditation agency recognized by the U.S. Department of Education. The Higher Learning Commission 230 South LaSalle Street, Suite 7-500 Chicago, IL 60604-1411 <http://www.ncahigherlearningcommission.org> Phone: 312.263.0456 / 800.621.7440

# Curriculum requirement details

## Required courses

| Course  | Crds |
|---|------|
| BIOL2260 - Human Anatomy and Physiology I .....                         | 3    |
| BIOL2261 - Human Anatomy and Physiology I Lab .....                     | 1    |
| MLT1109 - Phlebotomy Skills Lecture .....                               | 1    |
| MLT1112 - Clinical Phlebotomy .....                                     | 3    |
| MLT1116 - Basic Lab Techniques Lecture .....                            | 1    |
| MLT1117 - Basic Lab Techniques Lab .....                                | 1    |
| MLT1119 - Phlebotomy Skills Lab .....                                   | 1    |
| MLT2350 - Professional Issues in Medical Laboratory<br>Technology ..... | 2    |

## Other requirements or restricted electives

- Special Requirement: 3 credits**
- 3 Credits - Goal Area#1 - Communication
-

## Course summaries

**BIOL2260 - Human Anatomy and Physiology I** ..... (3 credits)

Meets MnTC Goal Area 3. This course is a comprehensive introductory overview of human anatomy and physiology that includes basic fundamental concepts of cell biology, tissues and organs making up the integumentary, skeletal, muscular and nervous systems. It is the first of a two-semester sequence in which anatomy and physiology are studied with an emphasis on structure and functions of systems. This course contains a lab-like component.

**Prerequisites:**

- Assessment into ENGL 1101 or college level writing equivalent.

**BIOL2261 - Human Anatomy and Physiology I Lab** ..... (1 credits)

Meets MnTC Goal Area 3 when taken with BIOL 2260. This course is the laboratory component of a comprehensive introductory overview of human anatomy and physiology that includes basic fundamental concepts of cell biology, tissues and organs making up the integumentary, skeletal, muscular and nervous systems. This course is the first of a two-semester sequence in which anatomy and physiology are studied with an emphasis on structure and functions of systems.

**Prerequisites:**

- Assessment into ENGL 1101 or College Level writing equivalent.

**Corequisites:**

- BIOL 2260

**MLT1109 - Phlebotomy Skills Lecture** ..... (1 credits)

This course is designed for phlebotomy and medical laboratory technician students. The course covers didactic knowledge and performance of venipuncture, capillary and arterial blood draws. It also emphasizes other body fluid collection, specimen processing, point-of-care analysis and specimen storage.

**Corequisites:**

- Must be taken with MLT1111 Phlebotomy Skills Lab

**MLT1112 - Clinical Phlebotomy** ..... (3 credits)

This course provides clinical phlebotomy experience for phlebotomy technician students in an affiliate hospital/clinic laboratory under the supervision of qualified technicians and technologists. Training includes blood and body fluid collection, processing and storage.

**Corequisites:**

- MLT1110

**MLT1116 - Basic Lab Techniques Lecture** ..... (1 credits)

This is an introductory course for Medical Laboratory Technology students covering the techniques, interpretation and correlation of results in urinalysis, hematology, chemistry, immunology, microbiology and immunohematology. Other topics included in the course are instrumentation, preparation of reagents, quality assurance and quality control, specimen collection, transportation, analysis and result reporting.

**Prerequisites:**

- ENGL1101

**Corequisites:**

- ENGL1101
- Must be taken with Lab MLT 1117

**MLT1117 - Basic Lab Techniques Lab** ..... (1 credits)

This is an introductory course for Medical Laboratory Technology students covering the techniques, interpretation and correlation of results in urinalysis, hematology, chemistry, immunology, microbiology and immunohematology. Other topics included in the course are instrumentation, preparation of reagents, quality assurance and quality control, specimen collection, transportation, analysis and result reporting.

**Prerequisites:**

- ENGL1101

**Corequisites:**

- ENGL1101
- MLT1116

**MLT1119 - Phlebotomy Skills Lab** ..... (1 credits)

This course is designed for phlebotomy and medical laboratory technician students. The course covers knowledge and performance of venipuncture, capillary and arterial blood draws. It also emphasizes other body fluid collection, specimen processing, point-of-care analysis and specimen storage.

**Corequisites:**

- Must take with MLT1109 Phlebotomy Skills Lecture

**MLT2350 - Professional Issues in Medical Laboratory Technology** ..... (2 credits)

This course surveys professional issues in preparation for career entry. Emphasis is placed on professional issues, ethics, current topics in health care delivery, governmental regulations, state licensure, societal concerns, cultural diversity, disease prevention, research, public health and environmental testing.

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Program Plan — "Phlebotomy Technician - Fall"  
Locations: Moorhead

1st Fall Term (16 credits)

**Courses**

**3 credits in one or more of the following:**

3 Credits - Goal Area#1 - Communication

| Course  | Crd |
|---|-----|
| BIOL2260 - Human Anatomy and Physiology I .....                         | 3   |
| BIOL2261 - Human Anatomy and Physiology I Lab .....                     | 1   |
| MLT1109 - Phlebotomy Skills Lecture .....                               | 1   |
| MLT1112 - Clinical Phlebotomy .....                                     | 3   |
| MLT1116 - Basic Lab Techniques Lecture .....                            | 1   |
| MLT1117 - Basic Lab Techniques Lab .....                                | 1   |
| MLT1119 - Phlebotomy Skills Lab .....                                   | 1   |
| MLT2350 - Professional Issues in Medical Laboratory<br>Technology ..... | 2   |