

SOUTHEAST COMMUNITY COLLEGE
HEALTH SCIENCES DIVISION
MEDICAL LABORATORY TECHNOLOGY
Revision Date: 11/2021
[Syllabus Statements](#)

I. CATALOG DESCRIPTION

Course Number: MEDT 1110
Course Title: Advanced Phlebotomy
Prerequisite(s): Procedures in Phlebotomy (C+ or higher)

Catalog Description: An advanced curriculum following Procedures in Phlebotomy. Further emphasis on the skills and safety procedures required to successfully perform blood collection techniques. Sample processing, waived laboratory testing, advanced sample collection requirements, introduction to requisitions, and basic medical terminology included. Supervised instruction and experience in collection techniques in the laboratory.

Credit Hours: 4
Class Hours: 45
Lab Hours: 45
Total Contact Hours: 90

II. COURSE OBJECTIVES: *Course will:*

1. Continue the theory and technical skills required to safely perform phlebotomy techniques.
2. Familiarize the student with sample processing, waived laboratory testing, basic medical terminology, and diversity in healthcare.
3. Provide supervised practice in collection techniques.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Recognize the importance of correct blood collection techniques in managing total patient care.
2. Define and state the meanings of common medical abbreviations.
3. Identify the components of blood.
4. Differentiate between arteries, veins, and capillaries by structure and function.
5. Provide patients with instructions for urine, fecal, and semen sample collections.
6. Describe the safety precautions associated with specimen processing.
7. Demonstrate proper use of a centrifuge for sample processing.
8. Identify sample collection requirements for various testing performed in a laboratory.
9. Discuss the purpose for quality control in the laboratory.
10. Identify shifts and trends in quality control testing and steps to remedy outliers.
11. Describe the steps in performance of an arterial puncture.
12. Demonstrate the aseptic techniques required when collecting blood culture specimen.
13. Discuss the effects of physical and emotional conditions or geriatric and pediatric populations on laboratory testing.
14. Describe how a phlebotomist should respond when a patient's religion or culture require alternative methods of patient care.
15. State the primary role of the phlebotomist in complying with HIPAA and HITECH.
16. Perform a kit test according to the manufacturer's instructions.

B. GENERAL EDUCATION LEARNING OUTCOMES

1. GELO 3: Critical Thinking and Problem Solving

Outcome: Evaluate the validity of arguments, alternatives, data, outcomes, and/or impacts of actions.

IV. CONTENT/TOPICAL OUTLINE *(course outline may provide more detailed information)*

A. BASIC MEDICAL TERMINOLOGY

1. Word Parts
2. Prefix, Suffix Meanings
3. Combining Forms
4. Abbreviations

B. THE CIRCULATORY SYSTEM

1. Blood Vessel Structure
2. Blood Components
3. Hemostasis and Coagulation

C. SPECIAL COLLECTIONS

1. Blood Cultures
2. Semen Collection
3. Urine and Fecal Collection
4. Cerebral Spinal Fluid Collection
5. Patient Collection Instructions
6. Throat Culture Collection

D. SAMPLE REQUIREMENTS

1. Common Chemistry Test Requirements
2. Common Hematology Test Requirements
3. Common Immunohematology Test Requirements

E. Quality Control

1. Shifts
2. Trends
3. External Controls
4. Internal Controls
5. Documentation of Quality Control

F. Point-Of-Care Testing

1. Advantages/Disadvantages
2. Regulations
3. Common Errors
4. Safety
5. Manuals and Package Inserts
6. Frequent POCT Performed

G. Kit Testing

1. Waived Tests
2. Moderate Complexity Testing

H. Arterial Blood Collection

1. Supplies
2. Assessing the Patient
3. Steady State
4. Modified Allen Test
5. Performing the Puncture
6. Complications

I. Pediatric Blood Collection and Newborn Screens

1. Techniques for Working with Children
2. Methods of Restraint
3. Equipment
4. Infant Heel Puncture
5. Newborn Screening Collection

J. Composition and Function of Blood

1. White Blood Cells
2. Red Blood Cells
3. Platelets

K. HIPAA and HITECH

1. Health Information Portability and Accountability Act of 1996
2. Health Information Technology for Economic and Clinical Health.

L. Diversity and Professional Ethics

1. Social Media
2. Tort Law

M. Regulation Agencies

1. CLIA
2. CAP
3. CLSI
4. Joint Commission

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

Schaub, DiLorenzo, Marjorie and Susan King Strasinger. *Blood Collection A Short Course* (Current edition). F.A. Davis Company, Philadelphia, PA.

B. Other Resources:

Laboratory coat (disposable, available in SCC Bookstore)

Latex-free, powder-free, non-vinyl disposable gloves (1 bag of 50, available in SCC Bookstore)

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. Lecture
2. Handouts
3. Technology Enhanced Lecture
4. Textbook Student Resources
5. Hands-on Demonstration

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

Lecture/Lab Grade:

Chapter Questions	20% of Total Grade
Quizzes	20% of Total Grade
Final Examination	20% of Total Grade
Laboratory (Lab exercises, Lab Practical, class/lab attendance, and participation)	40% of Total Grade
Total Grade:	100%

Compliance with all safety rules required to obtain full credit for safety portion of laboratory grade.

Current College Grading Scale will be used.

SCC STANDARD GRADING SCALE POLICY:

A+ 95-100 C+ 75-79

A 90-94 C 70-74

B+ 85-89 D+ 65-69

B 80-84 D 60-64

F Below 60

VIII. SPECIFIC COURSE REQUIREMENTS

The student must obtain a minimum grade of "C+" in Procedures In Phlebotomy to enroll in the course.

The MLT Program Guidelines and Requirements will be followed and applied in this course, as written in the MLT Student Handbook.