

Virginia Western Community College

MDL 105

Phlebotomy

Prerequisites

None

Course Description

Introduces basic medical terminology, anatomy, physiology, components of health care delivery and clinical laboratory structure. Teaches techniques of specimen collection, specimen handling, and patient interactions.

This course introduces the student to the techniques of obtaining blood samples from patients in health care settings. Students will learn venipuncture, heel, and finger stick techniques for adult and pediatric patients. Students will also be introduced to techniques of specimen preparations, interpretation of nurses and physicians' orders, and proper techniques for handling of blood specimens.

Semester Credits: 4

Lecture Hours: 2

Lab/Clinical/Internship Hours: 3

Required Materials

Textbook:

Phlebotomy Essentials. 5th edition, Ruth E. McCall* Cathee M. Tankersley. Walters Kluwer/Lippincott Williams & Wilkins. ISBN: 9781605476377.

Supplementary Materials:

Phlebotomy Exam Review, 4th Edition

Website *thePoint*

Course Outcomes

At the completion of this course, the student should be able to:

- Understand basic medical terminology.
- Understand laboratory orders from nurses and physicians.
- Understand basic human anatomy, especially the circulatory system.
- Be able to obtain blood from laboratory models such as simulated arms.
- Understand how to properly handle laboratory blood specimens.
- Understand how to process blood samples for various clinical laboratories.

Topical Description

Unit I: The Healthcare Setting

- Past and Present and The Healthcare Setting
- Quality Assurance and Legal Issues
- Infection Control, Safety, First Aide and Personal Wellness

Unit II: Overview of The Human Body

- Medical terminology
- Human Anatomy and Physiology Review
- The Circulatory System

Unit III: Blood Collection Procedures

- Blood Collection Equipment, Additives and Order of Draw
- Venipuncture Procedures
- Preanalytical Considerations
- Capillary Puncture Equipment and Procedures

Unit IV: Special Procedures

- Special Collections and Point-of-Care Testing
- Computers and Specimen Handling and Processing
- Nonblood Specimens and Tests
- Arterial Puncture Procedures

Note to Instructors

(List information about optional topics, departmental exams, etc.)