HLTH1245 | Phlebotomy Fundamentals
General Course Syllabus | Fall 2026

Course Information

Course Description: This introductory course provides the theoretical foundation and basic techniques of phlebotomy. Students learn the structure and function of the circulatory system, infection-control principles, specimen collection procedures, and laboratory safety standards. Emphasis is placed on venipuncture and capillary puncture using simulation models, equipment selection, order of draw, and specimen handling. The course prepares students for advanced, competency-based skill development in Advanced Phlebotomy: Competency and Certification Preparation.

Required Text(s) & Learning Tools:
Phlebotomy: A Competency Based Approach
Author: Kathryn Booth
ISBN10: 126415626X | ISBN13: 9781264156269

This course requires use of the textbook along with McGraw Hill's online learning platform, Connect, for assignments and coursework.

Students will also use **SHARPEN**, a free study app designed to support learning through practice quizzes and review activities. Please register using your Lakeland email address: https://studysharpen.com/

Course Rationale: Integrates advanced skill development and competency assessment within a structured laboratory format. This design ensures students meet AMT RPT certification requirements and achieve the level of proficiency expected for entry-level phlebotomy practice.

Course Outcomes:

1. Introduce the structure and function of the circulatory system as it relates to phlebotomy practice.
2. Develop knowledge of blood composition and its relationship to diagnostic testing.
3. Introduce the theory and techniques of venipuncture and capillary puncture.
4. Reinforce proper infection control, safety, and regulatory standards for specimen collection.
5. Develop foundational skills in specimen identification, labeling, and handling.
6. Reinforce awareness of quality assurance and pre-analytical factors affecting test accuracy.
7. Introduce professional communication, patient interaction, and ethical behavior in the healthcare setting.

Methods of Evaluation may include:

- Quizzes and written examinations
- A comprehensive final exam
- Homework and/or workbook assignments
- Discussion board participation (if applicable)
- Case study analysis or application-based assignments
- Written assignments or short papers
- Projects or presentations (individual or group)
- In-class activities and participation
- Laboratory activities and performance-based skill competencies

Specific grading breakdowns and policies will be outlined in individual instructor syllabi.

General Course Schedule (Overview)

HLTH1245 – Phlebotomy Fundamentals

Week 1 — Intro to Phlebotomy & Professional Practice

Ch 1 Phlebotomy & Healthcare

- Role of phlebotomist
- Healthcare team
- Lab environment
- Communication & professionalism

Week 2 — Safety & Infection Control

Ch 2 Safety & Preparedness

Ch 3 Infection Control

- OSHA / CDC / CLSI
- PPE & biohazards
- Hand hygiene & exposure prevention

Week 3 — Medical Terminology & Body Systems Overview

Ch 4 Medical Terminology

Ch 5 Body Systems & Lab Tests

- Medical language
- Abbreviations
- Body systems overview for lab testing

Week 4 — Circulatory System & Blood

Ch 6 Cardiovascular System

- Heart & circulation
- Blood vessels
- Composition of blood
- ABO/Rh basics

Week 5 — Patient Interaction & Specimen Requirements

Ch 7 Patient & Specimen Requirements

- Patient ID
- Communication
- Legal & ethics intro
- Documentation

Week 6 — Blood Collection Equipment

Ch 8 Blood Collection Equipment

- Tubes & additives
- Order of draw (intro)
- Venipuncture equipment

- Microcollection equipment

Week 7 — Introduction to Venipuncture & Capillary Puncture
Ch 9 (Intro) Venipuncture theory
Ch 10 (Intro) Dermal puncture theory

- Site selection
- Complications overview
- Basic procedures (theory only)

Week 8 — Specimen Handling & Intro to Quality
Ch 11 (Intro) Specimen Handling
Ch 12 (Intro) Quality Essentials

- Transport & storage
- Pre-analytical errors
- Intro to QA & POCT