



## COURSE OUTLINE

**DIVISION:** Health Professions (HP)

**COURSE:** ALH 1252 Principals and Practices of Phlebotomy

**Effective Date:** Spring 2025

**Submitted Date:** Aug-24

**Credit Hours:** 5

**IAI Number (if applicable):** N/A

*Complete all that apply or mark "None" where appropriate:*

**Prerequisite(s):** High school diploma or equivalent; at least 18 years of age, negative 10-panel drug screen; criminal background check (A felony or certain misdemeanors may prevent you from working in a healthcare setting); ability to fulfill clinical requirements.

**Enrollment by assessment or other measure?** Yes No

If yes, please describe:

**Corequisite(s):** None.

**Pre- or Corequisite(s):** ALH 1001

**Consent of Instructor:** Yes No

<b>Delivery Method:</b> <input checked="" type="checkbox"/> Lecture	<b>2 Contact Hours</b> (1 contact = 1 credit hour)
<input type="checkbox"/> Seminar	<b>0 Contact Hours</b> (1 contact = 1 credit hour)
<input checked="" type="checkbox"/> Lab	<b>1 Contact Hours</b> (2-3 contact = 1 credit hour)
<input type="checkbox"/> Clinical	<b>0 Contact Hours</b> (3 contact = 1 credit hour)
<input checked="" type="checkbox"/> Practicum	<b>9 Contact Hours</b> (2-4 contact = 1 credit hour)
<input type="checkbox"/> Internship	<b>0 Contact Hours</b> (5-10 contact = 1 credit hour)

**Offered:** Fall Spring Summer

### CATALOG DESCRIPTION:

This course consists of lecture and laboratory practice of the proper collection of laboratory specimens along with a minimum of 100 hours of clinical and 100 successful, unaided venipuncture.

This course includes instruction in terminology, anatomy, and physiology appropriate to phlebotomy techniques, safety, quality control,

professionalism, and communication techniques. It provides exposure to the necessary skills to effectively function as part of the medical laboratory-healthcare team. This supervised training will emphasize competency in blood collection, specimen handling and processing, safety, quality control and communication skills necessary to function as a member of the medical laboratory healthcare team. After completion of ALH 1252, the student will be eligible to take the phlebotomy certification exam offered by certifying agencies.

#### **ACCREDITATION STATEMENTS AND COURSE NOTES:**

To meet the requirements set forth by the ASCP Board of Certification for the Phlebotomy Technician Certification, students must complete 100 hours of clinical training and obtain 100 unaided venipuncture at a facility that has CMS CLIA certificate of registration, compliance, and accreditation; or JCI accreditation; or accreditation under ISO 15189.

Students must have the following items in their health record prior to clinical practice:

1. COVID Vaccine or waiver with weekly PCR testing, if required by the clinical facility
2. Flu Vaccination
3. 2-step TB test within the last 12 months
4. Physical and up-to-date immunization records
5. Hepatitis B Vaccination or signed declination form
6. 10-panel drug screen
7. Criminal Background Check
8. Any other requirements set forth by the clinical facility.

#### **COURSE TOPICS AND CONTENT REQUIREMENTS:**

- I. Identify and describe the responsibilities required of a healthcare worker performing phlebotomy
- II. Explain and exercise appropriate practices necessary for phlebotomy within the legal guidelines of a phlebotomist.
- III. Discuss common laboratory tests, including prerequisites as t patient preparation, anticoagulants, additives, and specimen preparation.
- IV. Define medical terminology used to describe the anatomy and physiology of each major body system.
- V. Discuss the circulatory, lymphatic, and immune systems as they relate to phlebotomy.
- VI. Discuss related duties performed by the phlebotomist including computer utilization, quality assurance and specimen handling.

- VII. Recognize the potential sources of transmission in the chain of infection to maintain infection control.
- VIII. Demonstrate the ability to perform phlebotomy skills safety, accurately and professionally that include:
  - a. Adult populations
  - b. Pediatric populations
  - c. Special populations
- IX. Discuss the purpose and procedure for collection of arterial blood.
- X. Describe collections and various non-routine procedures.
- XI. Describe purpose of and collections of non-blood specimens.
- XII. Upon completion of the 100-hour clinical rotation of the course, the student will have completed the following:
  - a. Demonstrate proper medicolegal practices necessary for phlebotomy.
    - i. Properly identify each patient requiring blood draw.
    - ii. Attend and orientation in CMS approved, accredited laboratory.
- XIII. Perform routine venipuncture and dermal puncture procedures using safe, prescribed, caring techniques.
- XIV. Perform 100 successful unaided blood collections including venipuncture techniques using syringe method and/or winged infusion needle
- XV. Observe skin puncture techniques
- XVI. Observe and/or explain the principals of the following collection procedures:
  - a. Bleeding time
  - b. Blood culture collection
  - c. Syringe technique and/or winged infusion needle techniques
  - d. Glucose tolerance testing
  - e. Urine specimen collection
  - f. Routine collection
  - g. 24-hour collection
- XVII. Observe other duties required of phlebotomist: file, data entry and accession of patient's history using a computer.

#### **INSTRUCTIONAL METHODS:**

- Lecture
- DVD
- Discussion
- Supervised skills lab exposure
- Observation
- Demonstration

- Perform unaided blood collections under supervision of clinical preceptor

#### **EVALUATION OF STUDENT ACHIEVEMENT:**

- Students will be evaluated based on points accumulated from attendance, homework, quizzes, final exam, and clinical rotation.
  - Attendance: 5%
  - Homework: 5%
  - Quizzes: 25%
  - Final Exam: 25%
  - Clinical Rotation: 40%
- Students must earn a minimum of 80% in the didactic portion of the course prior to clinical rotations.
- Clinical rotation is a Pass/Fail grade (if the criteria of the clinical rotation are not met then a zero grade will be awarded, resulting in a failure of the course).
- Requirements to pass clinical rotation include:
  - Minimum of 100 hours at a clinical site
  - 100 unaided successful blood collections
  - Meet/exceed all expectations as defined on clinical evaluation form

#### **Grading Scale:**

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = 0-59

#### **INSTRUCTIONAL MATERIALS:**

##### **Textbooks**

Hoeltke, L.B. (2017). The Complete Textbook of Phlebotomy (5th Ed.)- ISBN 978-1-337-28424-0

##### **Resources**

Kiechle, F. R. So You're Going to Collect a Blood Specimen: An Introduction to Phlebotomy (15th Ed.)

ASPC. BOC Study Guide: Phlebotomy – ASCP Certification Exam Review

- Phlebotomy Practicum Packet
- ASPC
- LabCE
- Phlebotomy Today
- Testing.com

## **LEARNING OUTCOMES AND GOALS:**

### **Institutional Learning Outcomes**

- 1) Communication – to communicate effectively.
- 2) Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion.
- 3) Social Consciousness – to understand what it means to be a socially conscious person, locally and globally.
- 4) Responsibility – to recognize how personal choices affect self and society.

### **Course Outcomes and Competencies**

1. Perform venipuncture and dermal puncture procedures successfully
2. Successfully pass a national certification (ASCP) exam.
3. Receive voiced program satisfaction by employers and graduates
4. Demonstrate competency in infection control and safety, universal and standard precautions, understanding of basic anatomy and physiology, medical terminology, patient, and specimen identification, selecting and preparing puncture site, blood collection equipment, post-puncture care, and medical waste sharps.
5. Demonstrate competency in pre-analytical sources of error in specimen collection, patient preparation, risk and complication factors and legal issues related to blood collection.