

HLC 111 Course Outline as of Fall 2014**CATALOG INFORMATION**

Dept and Nbr: HLC 111 Title: PHLEBOTOMY
 Full Title: Phlebotomy
 Last Reviewed: 5/12/2014

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	7.50	Lecture Scheduled	5.50	17.5	Lecture Scheduled	96.25
Minimum	7.50	Lab Scheduled	3.00	10	Lab Scheduled	52.50
		Contact DHR	3.50		Contact DHR	61.25
		Contact Total	12.00		Contact Total	210.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 192.50

Total Student Learning Hours: 402.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:

Concepts fundamental to basic phlebotomy practices including hematology, venipuncture techniques, routine processing, safety and infection control procedures are learned. Medical terminology is used throughout the course. Quality assurance issues for health care providers and the Health Insurance Portability and Accountability Act (HIPAA) are addressed. This course includes a 56 hour externship in acute care and outpatient settings requiring background checks, and proof of immunizations. Full attendance is mandated by the State of California for certification.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 1A or equivalent and Course Completion of HLC 160

Limits on Enrollment:

Health and Safety: Students must have the following immunizations: MMR, Varicella-Zoster, Tetanus or TDAP, PPD (2 tests completed, one week apart), Rubella, and Hepatitis B (all 3 shots must be completed before the first class meeting). The Hepatitis B vaccination has a 28 day wait period between the first and second immunizations; the third immunization is completed six months after the second immunization. Students must pass a background

clearance.

Schedule of Classes Information:

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Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:		Effective:	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Not Certificate/Major Applicable

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course, students will be able to:

1. Determine the appropriateness of written orders
2. Apply appropriate techniques for proper identification of patients and labeling of specimens.
3. Choose appropriate equipment necessary for specimen collection and position equipment correctly for procedures.
4. Employ knowledge of specific phlebotomy techniques, including use of tourniquet, specimen collection equipment, and application of pressure.
5. Define and implement standard precautions.
6. Recognize the situations that warrant using universal precautions according to the Occupational Safety and Health Administration (OSHA) standards. Implement standard precautions appropriately.

7. Utilize personal protective equipment as mandated by OSHA.
8. Identify factors necessary for proper site selection and apply appropriate site selection during specimen collection.
9. Properly handle and store specimens.
10. Identify medical conditions and their associated laboratory tests.
11. Identify legal issues facing the phlebotomist in the health care setting.
12. Qualify for National and State certification.

Topics and Scope:

- I. Anatomy and Physiology
 - A. Circulatory system
 - B. Appropriate collection site (Clinical Laboratory Standards Institute (CLSI))
- II. Phlebotomy as a Medical Procedure
 - A. Standards
 - B. Protective
 - C. Basic
- III. Managing Exposure to Bloodborne Pathogens
 - A. Bloodborne pathogens
 - B. Pre-exposure immunizations
 - C. Care of the exposure site
 - D. Post-exposure prophylaxis
 - E. Follow-up care and counseling
 - F. Comprehensive exposure control plan
- IV. Practices and Products for Exposure Prevention
 - A. Occupational Safety and Health Administration Bloodborne Pathogens
 1. Safe practices
 2. Hand washing
 3. Use of standard universal precautions and personal protective devices
 - B. Isolation protocol
 - C. Surgery protocol
 - D. Trauma protocol
 - E. Exposure protocol
 1. Protocol for accidental blood spills
 2. Proper handling of contaminated needles
 3. Safety needles and other needle options
- V. Phlebotomy
 - A. Techniques and site selection
 1. Surveying the antecubital area
 2. Forearm area
 3. Hand and wrists
 - B. Venipuncture sites vs. and IV infusions
 - C. Needle selection
 1. Vacutainer
 2. Straight needle or syringe
 3. Winged infusion sets
 4. Derma punctures
 - D. Equipment assembly
- VI. The Venipuncture
 - A. Test orders
 - B. Patient etiquette and identification
 - C. Informed consent and confidentiality

- D. Positioning supplies and equipment
- E. Venipuncture technique
- F. Recovering the failed venipuncture
- G. Order of Draw as required by the Clinical Laboratory Standards Institute (CLSI)
- H. Minimum fill requirements
- I. Labeling requirements
- J. Assessment of patient & post puncture care
- VII. Capillary Punctures and Pediatric Venipunctures
 - A. Equipment
 - B. Site selection
 - C. Procedure
 - D. Neonatal screening
- VIII. Collections, Phlebotomy Liability
 - A. Acceptable standard blood collection sites
 - B. Non - standard blood collection sites
 - C. Collecting blood cultures
 - D. Patient Complications
 - E. Chain of Custody
- IX. Specimen Handling and Storage
 - A. Handling & storage
 - B. Storage and transportation
 - C. On-site facilities
 - D. Off-site facilities
- X. Ethical-legal issues in patient care
 - A. Health Insurance Portability and Accountability Act (HIPAA) Standards
 - B. Protected Health Information (PHI)
 - C. Patient Bill of Rights
- XI. National Exam and State Certification
 - A. Content of the exam
 - B. Test taking strategies
 - C. Preparation

During Contact DHR hours students will perform a minimum of 56 hours of externship in acute care and outpatient settings as stated in the course description. While working in an actual clinical setting students will apply and demonstrate their knowledge and skill level related to Topics and Scope Items I - X; and Assignments 6 and 7.

Assignment:

1. Read two to four chapters (approximately 10 to 50 pages) from text per week.
2. Read one to three medical journal articles weekly.
3. Weekly quizzes; 1 midterm; final exam.
4. Watch 3-6 videos and access 1-3 web sites re: universal precautions, site selection, specimen collection equipment, and venipuncture techniques.
5. Practice site and equipment identification and equipment assembly
6. Venipuncture competency demonstration
7. Competency demonstration minimum of 10 successful blood draws; including 1 pediatric draw (pediatric defined as any person under the age of 18 years old).
8. Mandatory attendance.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Pre-veinipuncture patient assessment

Problem solving
10 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Performance exams, competency demonstrations

Skill Demonstrations
30 - 40%

Exams: All forms of formal testing, other than skill performance exams.

Quizzes, Mid-Term Exam, and Final Exam: Multiple choice, True/false, Matching items, Completion,

Exams
20 - 30%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation (State requires documented hours)

Other Category
10 - 30%

Representative Textbooks and Materials:

Phlebotomy for Nurses and Nursing Personnel. Dennis J. Ernst & Catherine Ernst. Center for Phlebotomy Education, Current edition.

Phlebotomy Worktext & Procedure Manual. Sommers. Elsevier, Current edition.

Instructor prepared materials.