

SYLLABUS  
PART I  
EDISON COMMUNITY COLLEGE  
PLB 150S PHLEBOTOMY AND LABORATORY TECHNIQUES  
3 CREDIT HOURS

**COURSE DESCRIPTION**

Introduction to basic medical laboratory techniques used by phlebotomists. Provides instruction in standard precautions, specimen collection and processing, and diagnostic testing. Prerequisite: G.P.A. of 2.0 or better and instructor permission. Co-requisite: OSA 111S or CIT 110S, OSA 151S, and ALH 101S. Lab fee.

**COURSE GOALS**

The student will:

Bloom's level		Program Outcomes
1	1. Identify hospital departments, lab departments and personnel. Discuss careers in laboratory medicine.	2
4	2. Correlate knowledge of blood and body systems to lab area and tests, and relate this knowledge to general pathologic conditions.	4
5	3. Define Universal Precautions and Blood Borne Pathogen Standards. Anticipate and practice standard precautions and special infection control procedures while performing laboratory functions.	1,2,4
3	4. Demonstrate competence in specimen collection techniques and knowledge of collection equipment.	4,6
5	5. Comprehend quality assurance, appropriate requisitioning, specimen collection, processing, preservation and transport, to maintain the integrity of samples until analysis. Evaluate the specimen for acceptability for testing.	1,4,6
2	6. Discuss laboratory regulation including accreditation, certification, accreditation, and licensure including associated agencies and organizations	2,4
4	7. Identify key elements of clinical laboratory safety including biohazards, fire hazards, electrical hazards, and chemical hazards.	2
3	8. Demonstrate competence in quality control and maintaining clinical equipment.	4
5	9. Identify the major components of a Code of Medical Ethics as it applies to the Clinical Laboratory.	2
5	10. Summarize arterial blood collection procedures and precautions	4
1	11. List common anticoagulants used in collecting blood for laboratory testing and state the appropriate order of draw when additive tubes are used to perform venipuncture.	5
1	12. Identify sites for skin puncture in infants, children and adults and describe the limitations and precautions related to skin punctures and capillary blood collection.	5

5	13. Identify, evaluate and select appropriate PPE for blood collection, transport, and handling.	1,4
1	14. Describe point of care testing (POCT) and discuss the purpose, specimen requirements, precautions, limitations, sources of error, reference values, personnel requirements, quality control, and quality assurance methods associated with each POCT.	4,7,8
3	15. Demonstrate competence in collecting blood specimens using venipuncture and capillary techniques.	5

### CORE VALUES

The Core Values are a set of principles which guide in creating educational programs and environments at Edison. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

### TOPIC OUTLINE

1. The laboratory and laboratory professionals
2. Lab safety, standard precautions, OSHA, MSDS, Infection Control, Blood Borne Pathogens
3. Collection of Microbiology specimens
4. Pre-analytical phase of testing
5. Venipuncture, arterial and capillary puncture techniques
6. Special precautions and legal considerations
7. Quality Control and Quality Assurance
8. POCT