

Montgomery County Community College
HCP/MAS 121
Laboratory Procedures in the Medical Office
3-2-2

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHOD
2. Consistently apply infection control principles in the lab through the implementation of Standard Precautions.	Lecture Laboratory Multimedia Demonstrations Oral Report Small Group Projects Written Assignment Research Resources Competency Demonstration	Quizzes and Exams Written Assignments Clinical Simulations Lab Experiments Lab Activities
3. Apply scientific reasoning and the scientific method to evaluate the implications of experiments and observations that have led to the current state of clinical reasoning.	Lecture Laboratory Multimedia Demonstrations Oral Report Small Group Projects Written Assignment Research Resources Competency Demonstration	Competency Demonstrations Lab Reports Lab Experiments Lab Quizzes Lab Activities
4. Demonstrate the ability to set up and utilize basic laboratory equipment to perform microscopy, urinalysis, blood chemistry and other CLIA-waived laboratory tests.	Lecture Laboratory Multimedia Demonstrations Oral Report Small Group Projects Written Assignment Research Resources Competency Demonstration	Competency Demonstrations Competency Demonstrations Lab Reports Lab Experiments Lab Quizzes Lab Activities
5. Incorporate knowledge of normal and abnormal laboratory results to support deductions concerning contemporary medical, healthcare-related and/or biological issues utilizing relevant resources.	Lecture Laboratory Multimedia Demonstrations Oral Report Small Group Projects Written Assignment Research Resources Competency Demonstration	Competency Demonstrations Competency Demonstrations Lab Reports Lab Experiments Lab Quizzes Lab Activities

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHOD
6. Develop laboratory reports that reflect the use of the scientific method for experiments performed in the laboratory.	Lecture Laboratory Multimedia Demonstrations Oral Report Small Group Projects Written Assignment Research Resources Competency Demonstration	Competency Demonstrations Competency Demonstrations Lab Reports Lab Experiments Lab Quizzes Lab Activities

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:

- I. Scientific Method

VI. Record Keeping in Lab

- a. HIPAA
 - b. Specimen (collection) Log
 - c. Patient Requisitions
 - i. contents, sources
 - d. Lab Manuals
 - i. examples
 - e. Path of patient's test
 - f. Flowsheets
- ## VII. Urinalysis/Urine
- a. Review of Urinary System (Anatomy and Physiology)
 - i. basic structure and function
 - b. Urinalysis
 - i. definition
 - ii. what can it detect?
 - 1. kidney disease
 - 2. endocrine
 - 3. metabolic pathology
 - iii. Specimen Type
 - 1. justification for each
 - iv. Volume of urine
 - v. Basics of collection
 - 1. clean catch
 - vi. Labeling the container
 - c. Urinalysis Test
 - i. procedure
 - ii. tests covered
 - iii. normal values
 - iv. what do abnormal values indicate?
- ## VIII. Phlebotomy/Venipuncture
- a. Equipment
 - b. Types of Tubes
 - i. color
 - ii. additive
 - iii. tests
 - c. Order of Draw

- IX. Hematology
 - a. Parts of Blood
 - b. CBC
 - i.

iii.

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was developed, approved and will be delivered i