

OHL008 – INTRODUCTION TO MEDICAL LABORATORY SCIENCE

Credit Hours: 2-3 Semester Hours
Pre-Requisite: None
Related TAG: Clinical/Medical Laboratory Science
Outcomes marked with an asterisk (*) are essential and must be met.
1. Discuss the different careers available in the profession of medical laboratory science.*
2. Explain the differences between the terms licensure, certification, and accreditation.*
3. Describe the different governing groups and agencies involved in the profession of medical laboratory science.*
4. Identify the organizations associated with the following initials and describe what they are.* <ul style="list-style-type: none">a. ASCLS*b. ASCP*c. MLS*d. MLT *e. NAACLS*f. TJC*g. CAP*h. CLIA*
5. Identify the major routine tests performed in the following sections of the medical lab:* <ul style="list-style-type: none">a. Blood bank*b. Chemistry*c. Hematology*d. Immunology*e. Microbiology*f. Urinalysis*
6. Define the term “standard precautions”. Identify the two primary blood borne pathogens they are meant to prevent. *
7. Create a medical laboratory safety checklist that identifies key elements in the four categories below:* <ul style="list-style-type: none">a. Biohazards*b. Fire hazards*c. Electrical hazards*d. Chemical hazards*
8. Describe the proper procedure for performing a venipuncture.*

9. Perform a successful venipuncture on a human subject.*
10. List common anticoagulants used in collecting blood for laboratory testing.*
11. Cite the appropriate order of draw when additive tubes are used.*
12. Describe the proper procedure for obtaining quality specimens for the lab (venous, arterial, and capillary).*
13. Describe the proper procedures for processing whole blood specimens when serum or plasma is needed, including general storage requirements.*
14. Identify the major components of a Code of Medical Ethics and apply to selected situations in Medical Laboratory Science.*
15. Demonstrate the ability to use the following basic medical laboratory equipment and instrumentation:* <ul style="list-style-type: none"> a. Spectrophotometer* b. Balance* c. Pipettes* d. Microscope* e. Centrifuge*
16. Discuss the importance of quality assurance in a medical laboratory setting.*
17. Calculate metric conversions, simple serial dilutions, basic Beer's Law, and total magnification, as well as construct and interpret standard curve.*

**CLINICAL/MEDICAL LABORATORY SCIENCE TAG: INTRODUCTION TO
MEDICAL LABORATORY SCIENCE TAG COURSE**

**FACULTY PARTICIPANTS
Fall 2017-Spring 2018**

Name	Institution
Mary Ellen Tancred (Review/Revision Panel Lead)	Columbus State Community College
Ayman Idrees	Clark State Community College
Marla Thoroughman	Shawnee State University
Jessica Mantini	The Ohio State University
Erin Rumpke	University of Cincinnati
Steve Temesvary	Washington State Community College

**FACULTY PARTICIPANTS
January-April 2016**

Name	Institution
Cheryl Selvage (Review/Revision Panel Lead)	Lorain County Community College
Ayman Idrees	Clark State Community College
Mary Ellen Tancred	Columbus State Community College
Marla Thoroughman	Shawnee State University
Jessica Mantini	The Ohio State University
Linda Graeter	University of Cincinnati
Steve Temesvary	Washington State Community College
Maria Delost	Youngstown State University