

MLS 1501L - Introduction to the Medical Laboratory Profession Laboratory

Fall 2026 Syllabus, Section 02, CRN 41274,

Credit hours: 1

Instructor

Hiba Ismail

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Public Instructor Information

Professor: Hiba M Ismail MHHS, MLS(ASCP)^{CM}

Professional Qualifications:

MHHS, Health and Human Services, Youngstown State University, 2012

Bachelor's, Medical Laboratory Science, Youngstown State University, 2005

Bachelor's, Applied Science, Youngstown State University, 2002

Associate's, Medical Laboratory Technology, Youngstown State University, 2002

ASCP Board Certified, MLS(ASCP)^{CM}

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Course Description

1501L. Introduction to the Medical Laboratory Profession Laboratory. Phlebotomy, specimen collection and processing; basic medical laboratory exercises. Three hours lab per week. Concurrent with MLS 1501. Prereq.: MATH 1504 or level 20 on Math Placement Test, high school chemistry or CHEM 1501, high school biology or BIOL 1505. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Clinical Laboratory Science. 9th Edition Linné & Ringsrud's Clinical Laboratory Science	Turgeon, Mary Louise	ISBN# 978-0-323-832243

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Weekly Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/27	Posted to Blackboard Posted Weekly to Blackboard: Orientation to lab, History Videos, and lab safety. Lab professionalism/GPS of lab.	Syllabus Orientation to lab, History Videos, and lab safety. Lab professionalism/GPS of lab.	
9/3	Glass ware, Balances, Pipettes and Ethical issues in lab	Glass ware, Balances, Pipettes and Ethical issues in lab	
9/10	Intro to Microscope & Lab math	Intro to Microscope & Lab math	Lab Safety Test
9/17	Types of water & dilution practices	Types of water & dilution practices	
9/24	Specimen processing, QA/QC	Specimen processing, QA/QC	Assignment #1 Due
10/1	Phlebotomy	Phlebotomy	Assignment #2 Due

10/8		Midterm Lab exam	Comprehensive Lab Exam (written/ Practical)
10/15	Hematology	Hematology	
10/22	Urinalysis	Urinalysis	
10/29	Microbiology	Microbiology	
11/5	Clinical Chemistry/ Molecular techniques/ Automation	Clinical Chemistry/ Molecular techniques/ Automation	
11/12	Immunohematology	Immunohematology	
11/19	Immunology	Immunology	
11/26	Final Exam	Final Exam Comprehensive	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.