

MLS 1501L - Introduction to the Medical Laboratory Profession Laboratory

Fall 2026 Syllabus, Section 01, CRN 41273,

Credit hours: 1

Instructor

Hiba Ismail

Email: hmismail@ysu.edu

Public Instructor Information

Public Instructor Information

Instructor Information

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

Email: hmismail@ysu.edu

Preferred Method of Contact: Email (hmismail@ysu.edu)

Response Time: Emails will typically be answered within 24 hours during the workweek.

Professional Qualifications

- Master of Health and Human Services (MHHS), Youngstown State University, 2012
- Bachelor of Science in Medical Laboratory Science, Youngstown State University, 2005
- Bachelor of Science in Allied Health, Youngstown State University, 2002
- Associate of Applied Science in Medical Laboratory Technology, Youngstown State University, 2002
- Medical Laboratory Scientist, MLS(ASCP)^{CM}, American Society for Clinical Pathology (Board Certified; Certification Maintenance)

Office Information

Office Location: Cushwa Hall

Office Phone: (330) 941-1761

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
8/25	Posted to Blackboard	Syllabus	
9/1	Posted Weekly to Blackboard: Orientation to lab, History Videos, and lab safety. Lab professionalism/GPS of lab.	Orientation to lab, History Videos, and lab safety. Lab professionalism/GPS of lab.	

9/8	Glass ware, Balances, Pipettes and Ethical issues in lab	Glass ware, Balances, Pipettes and Ethical issues in lab	
9/15	Intro to Microscope & Lab math	Intro to Microscope & Lab math	Lab Safety Test
9/22	Types of water & dilution practices	Types of water & dilution practices	
9/29	Specimen processing, QA/QC	Specimen processing, QA/QC	Assignment #1 Due
10/6	Phlebotomy	Phlebotomy	Assignment #2 Due
10/13		Midterm Lab exam	Comprehensive Lab Exam (written/ Practical)
10/20	Hematology	Hematology	
10/27	Urinalysis	Urinalysis	
11/3	Microbiology	Microbiology	
11/10	Clinical Chemistry/ Molecular techniques/ Automation	Clinical Chemistry/ Molecular techniques/ Automation	
11/17	Immunohematology	Immunohematology	
11/24	Immunology	Immunology	
12/1	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.