

MLS 2603L - Advanced Immunohematology Laboratory

Fall 2026 Syllabus, Section 01, CRN 42469,

Credit hours: 1

Instructor

Hiba Ismail

Email: hmismail@ysu.edu

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

Professor: Hiba M Ismail

Email: hmismail@ysu.edu

Office Phone: 330-941-1761

Office: #2437

Preferred Contact Method: Email

Communication Expectations:

All emails will be replied to within 24 hours

Course Description

2603L. Advanced Immunohematology Laboratory. Clinical application of advanced Immunohematology procedures. Three hours of laboratory per week. Prereq.: "C" or better in MLS 1503 and MLS 1503L. Crosslisted with: MLT 2603L. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required			

Course Materials

All notes, assignments and handouts will be posted to blackboard. It is required to have a computer that can access Respondus and Blackboard. This is a link to computer lab locations on campus

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

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Wed	9/2	Antibody identification in PEG/LISS Homework 1 Antibody panel Antibody identification in PEG/LISS	Antibody identification in PEG/LISS	Antibody panel Identification



Wed	9/9	ABO rh typing Gel method Homework 2 gel/solid phase	Gel Methodology	Gel methodology homework
Wed	9/16	Solid phase methodology Homework see week 3	Solid phase method	Gel/solid phase method
Wed	9/23	Elution Part 1 Quiz 1 antibody identification	Elution part 1	Quiz 1 Antibody id
Wed	9/30	Elution Part 2 Homework DAT/Elution	Elution part 2	DAT/ Elution
Wed	10/7	Review Quiz 2 DAT Elution	Midterm Review	Quiz 2 DAT/Elution
Wed	10/14	Midterm	MIDTERM	
Wed	10/21	Fetal Screen Homework 4 KB Fetal Screen	FETAL SCREEN METHODOLOGY	Homework 4 Fetal Screen
Wed	10/28	KB testing Homework see week 9	Kleihauer betke	Homework see week 9
Wed	11/4	Antigen Typing Quiz 3 Fetal screen/KB Homework 5	Antigen Typing	Quiz 3 fetal screen/ KB procedure
Wed	11/11	University Closed		
Wed	11/18	Homework See week 11 Quiz 4 Antigen Typing	Quiz 4 Antigen typing	Homework See week 11
Wed	11/25	University closed		
Wed	12/2	Final Exam		

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.