

MLS 3704L - Clinical Immunology and Serology

Fall 2026 Syllabus, Section 01, CRN 42460,

Credit hours: 1

Instructor

Hiba Ismail

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Public Instructor Information

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

Instructor Professional Qualifications:

Master's, 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}

Instructor Office Location: Cushwa Hall

Instructor Office Phone: 330-941-1761

Course Description

3704L. Clinical Immunology and Serology . A study of the diagnostic applications of immunology and methods of serological testing. The immunology and diagnosis of infectious disease, autoimmunity, immunodeficiency, and immunoproliferative disease will be discussed. Coreq.: MLS 3704. Cross-Listed: MLT 3704L. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Immunology and Serology in Lab Medicine, Turgeon, Mosby, 7th edition		

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	Syllabus / Safety check list / Supplies/ Equipment Pipetting and Serial Dilution	Syllabus / Safety check list / Supplies/ Equipment Pipetting and Serial Dilution	
Wed	9/9	HCG test for pregnancy Pipetting and Serial Dilutions (Cont.)		HCG test for pregnancy Pipetting and Serial Dilutions (Cont.)
Wed	9/16	Flow Cytometry video (Room:2220) Infectious Mono Testing		Flow Cytometry video (Room:2220) Infectious Mono Testing
Wed	9/23	RPR Testing		RPR Testing
Wed	9/30	HIV Testing/invitro phagocytosis		HIV Testing/invitro phagocytosis
Wed	10/7	ASO Quick Strep		ASO Quick Strep



Wed	10/14	MID TERM LAB (comprehensive	MID TERM LAB (comprehensive
Wed	10/21	Covid/FLU A & FLU B testing	Covid/FLU A & FLU B testing
Wed	10/28	RA Factor lab	RA Factor lab
Wed	11/4	ELISA Lab Testing	ELISA Lab Testing
Wed	11/18	ANA and SLE Assignments	ANA and SLE Assignments
Wed	12/2	FINAL LAB EXAMINATION - COMPREHENSIVE	FINAL LAB EXAMINATION - 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.