

MLS 4807L - Advanced Clinical Chemistry Lab Competency

Fall 2026 Syllabus, Section 01, CRN 43958,

Credit hours: 2

Instructor

Farhana Mueez

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Public Instructor Information

Instructor Title:

Farhana Mueez M.D., M.H.A., MLS (ASCP)cm

Program Director Medical Laboratory Science Programs

Instructor Professional Qualifications:

M.D., ECFMG Certified-2011

M.H.A., University of Phoenix-2006

MLS (ASCP)cm: University of Kentucky-2017

Instructor Office Location:

Dept. of Health Professions

Cushwa Hall Room # 2450

Instructor Office Phone:

Phone # 330-941-4681

Course Description

4807L. Advanced Clinical Chemistry Lab Competency . Laboratory procedures in clinical chemistry. Students may submit verified competency and receive experiential credit. Students who do not meet required competency must register for and engage in clinical training at an affiliated clinical site. Acceptance into the MLS Advanced Placement online completion program. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Clinical Chemistry Principles, Techniques and Correlations-9th Edition	Michael L. Bishop, Edward P. Fody, Carleen Van Siclen, James March Mistler & Michelle Moy	9781284238860
Optional	Tietz textbook of Clinical Chemistry and Molecular Diagnostic 6th or 8th edition	Nader Rifai & Andrea Rita Horvath, Carl T. Wittwer	9780323359214.
Optional	Laboratory Mathematics -Medical and Biological Applications 5th Edition	Joe Bill Campbell and June Mundy Campbell	0-8151-1397-8
Optional	Medical Laboratory Science Review 5th ed	Robert R. Harr	9780803668270

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

Schedule Fall 2026

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	
8/31	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	
9/7	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	
9/14	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	
9/21	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	
9/28	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	
10/5	Optional Readings from the Class readings	Hospital Based Competency Course Students performed Clinical Testing under supervision to gain Clinical competency in specific discipline	

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.