

MLS 3702 - Clinical Hematology 2

Fall 2026 Syllabus, Section 01, CRN 41275,

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:

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Course Description

3702. Clinical Hematology 2. Advanced theory and laboratory procedures in hematology and hemostasis, including leukemia, anemia, hematopathology and coagulation disorders; abnormal differentials and automated methods. Two hours of lecture week. Prereq.: MLS 3701, MLS 3701L with a minimal grade of "C". 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Clinical Hematology Atlas	Jacqueline H.Carr	978-0-323-71192-0
Required	Hematology in Practice 4th Edition	Betty Ciesla	978-1-7196-5114-1
Required	Rodak's Hematology Clinical Principles and Applications	Elaine M. Keohane,Michelle M.Butina, Kamran M. Mirza, Jeanine M.Walenga	978-0-323-93650-7

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



TENTATIVE AGENDA F2026 (This Schedule is subjected to change according to the class requirement)

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter# 10 Ciesla -pg-151-162	Syllabus discussion Lecture# 1 WBC:Abnormalities and Anomalies	
8/31	Chapter #21-pg-349-381-Ciesla Chapter # 15 -Rodak's-pg- 244	Lecture # 2 WBC: Lab Evaluations Lecture # 3 Bone Marrow Testing Quiz # 1 (Lecture 1,2 & 3) Case Study Assignment # 1 Pop Quiz # 1	Quiz# 1 online open from 09/06-09/13 Case Study Assignment # 1 due 09/14 Pop Quiz # 1 in Class
9/7	Holiday No Class	Holiday No Class	Holiday No Class
9/14	E-4 Rodak's Chapter #27 Pg-489 Rodak's	Lecture# 4 Body Fluids Analysis in Hematology Lab Lecture# 5 Introduction to Leukocytes Neoplasms Pop Quiz# 2 Media Lab Assignment # 1	Pop Quiz# 2 in class Media Lab Assignment # 1 Due 09/21
9/21	Chapter # 11 Ciesla pg-169 Chapter # 31 Rodak's pg-566	Lecture# 6 Acute Leukemia Pop Quiz # 3 Quiz# 2 (lectures 4 & 5) Media Lab Assignment # 2	Pop Quiz# 3 in Class Quiz # 2 online open from 09/21 due 09/28 Media Lab Assignment # 2 due 09/28
9/28	Chapter# 12 Ciesla pg-202	Lecture # 7 Chronic Leukemia Pop Quiz# 4 Case Study Assignment # 2	Pop Quiz in Class Case Study Assignment # 2 Due 10/12
10/5	Chapter # 12 Ciesla pg- 200 Chapter # 32 Rodak's pg-583	Lecture # 8 Myeloproliferative Disorders Pop Quiz # 5 Media Lab Assignment # 3 Quiz# 3 (lecture # 6)	Pop Quiz # 3 in Class Media Lab Assignment # 3 due 10/12 Quiz# 3 online open 10/05- 10/12
10/12	Midterm Exams Lectures# 1 to 8 (No in person class Online Midterm Exam only)	Midterm Exam Comprehensive Lectures 1-8	Midterm Exams Online open 10/12 and due 10/18
10/19	Chapter # 13 Ciesla pg-219	Lecture # 9 Lymphoproliferative Disorders and Related Plasma Cell Disorders Pop Quiz# 6 Case Study Assignment # 3 Quiz # 4 (Lecture # 9)	Pop Quiz # 6 in Class Case Study Assignment # 3 Due 11/09 Quiz # 4 online open 10/26 due 11/02
10/26	Chapter # 14 Ciesla pg-233	Lecture # 10 Myelodysplastic Syndrome Pop Quiz# 7 Quiz # 5 (lecture # 10) Media Lab Assignment # 4	Pop Quiz# 7 in Class Quiz # 5 Online open 10/26 due 11/02 Media Lab Assignment # 4 Due 11/16
11/2	Chapter # 15 Ciesla pg-243-253	Lecture # 11 Overview of Hemostasis Platelets Physiology Pop Quiz# 8	Pop Quiz# 8 in class
11/9	Chapter# 16 Ciesla pg-261-269	Lecture# 12 Quantitative and Qualitative Disorders of Platelets Pop Quiz# 9 Case Study Assignment # 4	Pop Quiz # 9 in Class Case Study Assignment # 4 due 11/23
11/16	Chapter # 17 Ciesla pg- 273-280	Lecture# 13 Defect of Plasma Clotting Factors Pop Quiz # 10 Quiz# 6 (lectures # 11 and 12) Media Lab Assignment # 5	Pop Quiz # 10 in class Quiz# 6 online open on 11/16 and Due 11/23 Media Lab Assignment # 5 due 11/30



11/23	Chapter # 18 Ciesla pg- 285-291 Chapter # 19 Ciesla pg-297-310	Online Lecture- Lecture # 14 Fibrinogen, Thrombin, and Fibrinolytic System Online Lecture- Lecture # 15 Anticoagulant Therapy	
11/30	Chapter # 20 Ciesla pg 318-321 and pg 328-340	Lecture # 16 Hematology and Coagulation Instrumentation Quiz# 7 (lectures 13 and 14) Pop Quiz# 11 in Class	Quiz # 7 online open on 11/30 and Due 12/06 Pop Quiz# 11 in Class
12/7	12/11 Comprehensive Final Exams Readings Lectures 1-16	Final Exam Comprehensive lectures 1-16	Final Exam in Classroom 3140 from 8:00am to 10:00am

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.