

CLS 452: HEMATOLOGY AND HEMOSTASIS

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COURSE DESCRIPTION:

M.T.452: Advanced Clinical Studies in Hematology / Hemostasis (2 cr.)
Principles and procedures of complex clinical tests utilized in diagnosing, treating, and monitoring patients with leukemias, anemias, and other hematologic disorders; examination of factors involved in complicated situations encountered in hemostasis.

PREREQUISITES:

CLT(NCA) or MLT(ASCP) Certification; admission to the professional program.

LEARNING OUTCOMES

Students will be able to:

Recognizing prior educational and technical skills, the student will

1. Interpret test results as to clinical relevance, correlate to clinical diagnosis and suggest further testing
2. Analyze and maintain effective quality assurance taking proper corrective action when necessary
3. Identify abnormal structure and function of peripheral blood and bone marrow cells which occur in hematological disorders utilizing current methods and special staining techniques
4. Differentiate and resolve technical, instrument and physiologic causes of problems or unexpected test results
5. Assess the economic implications and applications of new techniques, equipment and procedures.

CHAPTER OBJECTIVES: Provided with each chapter.

FORMAT: Hybrid

ASSIGNMENTS:

1. Online Quizzes: An online quiz accompanies each assigned chapter. These ***timed*** quizzes must be ***completed independently.***
2. Online Case Studies: May be done collaboratively or independently. Responses must be posted on D2L by the assigned dates. Case study grades will be based on the accuracy and completeness of responses.
3. Complex Case Study: Each student will develop a complex case study encompassing multiple departments in the laboratory (i.e., heme, chem, blood bank, X-ray, etc). The case study should include 4-5 questions as well as answers to the questions.

Required Professional Activities: As a professional, continuing education and membership in the professional organization are essential. It is highly recommended that you become a student member of the American Society for Clinical Laboratory Science (ASCLS). ***Attendance at one professional seminar or local meeting is required.***

ASCLS/WISCLS Membership:

A student membership in the national and state (and local) professional organizations is coordinated through the main SHCP office once per year at a discounted group rate (~\$25). A course fee is assigned to cover the cost and is associated with CLS 415/452. CLS students are **expected** to become members.

ASCP Student Membership:

There is no charge for student membership. You will be expected to submit the application for membership directly through ASCP. Directions for both memberships will be distributed via email by the SHCP main office.

QUIZZES / CASE STUDIES / DERIVATION OF COURSE GRADE:

1. Online Chapter Quizzes (50%)
2. Case Studies (50%)

GRADING SYSTEM:

- A - 90-100%
- B - 80-89%
- C - 70-79%
- D - 60-69%
- F - Less than 60%

REQUIRED TEXTS:

Clinical Hematology and Fundamentals of Hemostasis, 5th edition

Author: D. M. Harmening

The Morphology of Human Blood Cells

L. W. Diggs, D. Sturm, and A. Bell

REFERENCE TEXTS:

Supplemental texts and journal articles will be used as needed.