

## **CLS 414: HEMOSTASIS**

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### **COURSE DESCRIPTION:**

CLS 414: Hemostasis (1 cr.)

Hemostasis is the study of the mechanisms and disorders of coagulation and fibrinolysis. The diagnostic tests, testing techniques, and instrumentation used in patient diagnosis will be studied with an emphasis on case correlation.

### **PREREQUISITES:**

Biology 285

### **FORMAT:**

Students will be held responsible for the material assigned to read each week. Students will be given ample opportunity to complete assigned labs and will be held responsible for the completion of lab exercises each week. The lab will be open and available outside of scheduled class hours from 8:00 am to 4:30 pm for the completion of lab exercises as assigned. Please adhere to normal business hours (8am – 4:30 pm) for safety reasons.

### **CORE ABILITIES:**

- Communicate Effectively ~verbally & in writing
- Think Critically
- Exercise Problem-Solving Skills
- Work Collaboratively in Diverse Teams
- Respect Cultural Diversity & Pluralism

### **COURSE GOALS AND PURPOSES:**

1. To develop an understanding of the critical nature of laboratory data in diagnosing diseases/conditions associated with hemostasis.
2. To appreciate and understand the importance of laboratory data in diagnosing and monitoring coagulation disorders.
3. To recognize abnormal data, interpret and correlate data with coagulation disorders.

### **GRADING SYSTEM:**

A	90-100%	C	70-74%
B+	85-89%	D+	65-69%
B	80-84%	D	60-64%
C+	75-79%	F	<60%

### **EXAMS/QUIZZES:**

1. All online randomized quizzes must be completed by the assigned due date, no exceptions! Ample time will be given to complete online quizzes so please work accordingly. Students may retake online quizzes as many times necessary in order to achieve a minimum grade of 80%. Incorrectly answered questions will be identified, but answers will not be provided. It is up to the student to research the correct answer.
2. In class unit exams
2. Comprehensive final exam

### **ASCLS/WISCLS Membership:**

A student membership in the national and state (and local) professional organization is \$30. CLS students are highly encouraged to become members.

### **DERIVATION OF COURSE GRADES:**

50% Unit exams / Case studies  
30% Online quizzes / Lab Worksheets  
20% Final Exam

### **REQUIRED TEXTS:**

Clinical Hematology and Fundamentals of Hemostasis 5<sup>th</sup> Edition  
Author: D. M. Harmening

### **REFERENCE TEXTS:**

Blood: Bearer of Life and Death

A Report from the Howard Hughes Medical Institute

Dailey's Notes on Blood

Author: J. F. Dailey

Diagnostic Hematology

Author: Bernadette F. Rodak

Practical Microscopic Hematology: A Manual for the Clinical Laboratory and Clinical Practice

Authors: F. Heckner, H. P. Lehmann, and Y. S. Kao

Hematology: Basic Principles and Practices

Authors: R. Hoffman, E. J. Benz Jr., S. J. Shaattil, B. Furie, H. Cohen, and L. E. Silberstein

Practical Diagnosis of Hematologic Disorders

Authors: C. Kielsberg, K. Foucar, R. McKenna, S. Perkins, L. Peterson, P. Peterson, and G. Rodgers

Clinical Hematology: Principles, Procedures, and Correlations

Authors: C. A. Lotspeich-Steinenger, E. A. Stiene-Martin, and J. Koepke

Textbook of Hematology

Author: S. B. McKenzie

Clinical Hematology: Theories and Procedures

Author: M. L. Turgeon

Supplemental texts and journal articles will be used as needed.