TEXAS A&M UNIVERSITY-CORPUS CHRISTI
COLLEGE OF SCIENCE & ENGINEERING
HEMOSTASIS
(CLSC 4120)
Spring 2020

A. COURSE INFORMATION
Course number/section: CLSC 4120.001
Class meeting time: M 2:00-2:50pm
Class location: IH-157

B. INSTRUCTOR INFORMATION
Instructor: Jean Sparks, PhD, MLS(ASCP)
Office: TH 237
Office Hours: TR 2:00-4:00 PM and F 9-10 AM and by appointment
Phone: 825-2359 (office)
E-mail: jean.sparks@tamucc.edu

C. COURSE DESCRIPTION
Catalog Course Description
Studies of blood coagulation with an emphasis on the interaction of blood vessels, platelets, and certain plasma proteins. Disorders of hemostasis will be discussed along with diagnostic testing.

D. PREREQUISITES AND COREQUISITES
Prerequisites CLSC 4420

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES
McKenzie and Williams, Clinical Laboratory Hematology, 3rd edition, 2015, Pearson

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT
Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

The students will be able to:
1. Discuss principles used in the diagnosis of coagulation.
2. Explain the general interaction of the systems involved in maintaining primary and secondary hemostasis and how they affect each other.
3. Define and differentiate thrombocytopenia, thrombocytosis, and thrombocythemia and state an expected range of platelet counts in each.
4. Describe inheritance patterns, pathophysiology, clinical and laboratory findings for inherited and acquired disorders of secondary hemostasis.
5. Evaluate laboratory test results and correlate with clinical history.
6. Understand the physiological processes involved in hypercoagulability and laboratory procedures for screening and confirmation for thrombosis.
7. Show professionalism and respect for self and others.

The specific laboratory objectives are contained in the lab manual and specific lecture objectives are provided with each powerpoint presentation. All examination questions are keyed to those objectives.

G. INSTRUCTIONAL METHODS AND ACTIVITIES
Class assignments should be turned into the instructor at the beginning of class the week following an assignment. Work will not be accepted late and a zero will be given for the assignment. Unscheduled quizzes may be given during lecture and lab sessions and a zero will be given for a missed quiz.

All tests will be multiple choice with some short answer and identifications. The final may require a scantron card for an answer sheet. All examination questions are keyed to the lecture and laboratory objectives. Careful study of these objectives is required for each examination. Examinations may be taken only during the scheduled time.

The following scale will be used to report grades:
- A - 90 - 100
- B - 80 - 89
- C - 70 - 79
- D - 60 - 69
- F - below 60

H. MAJOR COURSE REQUIREMENTS AND GRADING
The final grade will be based on the points scored on a comprehensive final examination, four term examinations, and graded laboratory and class evaluations.

Exam I  25%
Exam 2  25%
Attendance  5%
Final  45%

I. COURSE CONTENT/SCHEDULE (see page 5)

J. COURSE POLICIES
No cell phone use during classroom lectures or labs.
Missed exams must be rescheduled with instructor.

K. COLLEGE AND UNIVERSITY POLICIES
- **Academic Integrity/Plagiarism**
  University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

- **Classroom/professional behavior**
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code
of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

- **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

- **Deadline for Dropping a Course with a Grade of W (University)**
  I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with your academic advisor, the Financial Aid Office, and me, before you decide to drop this course. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Please consult the Academic Calendar (http://www.tamucc.edu/academics/calendar/) for the last day to drop a course.

- **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and Engineering Grade Appeals webpage (http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disabilities Services**
  The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-5816 in Corpus Christi Hall 116.

  If you are a returning veteran and are experiencing cognitive and/or physical access issues in the
classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

- **Statement of Academic Continuity**
  In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student. Since this course requires a clinical rotation at the affiliated hospitals, students would not be able to complete the practicum course and would have to repeat the course as soon as accommodations could be made.

L. **OTHER INFORMATION**

- **Academic Advising**
  The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

**GENERAL DISCLAIMER**
I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.

**CLSC 4120: Hemostasis**
**Schedule – Spring 2020**

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 27</td>
<td>Primary Hemostasis, Platelets, and Platelet Disorders</td>
<td>Chapter 29 pp. 612-638</td>
</tr>
<tr>
<td>February 3</td>
<td>Primary Hemostasis, Platelets, and Platelet Disorders</td>
<td></td>
</tr>
<tr>
<td>February 10</td>
<td>Secondary Hemostasis and Fibrinolysis</td>
<td>Chapter 30 pp. 639-670</td>
</tr>
<tr>
<td>February 17</td>
<td>Secondary Hemostasis and Fibrinolysis</td>
<td></td>
</tr>
<tr>
<td>February 24</td>
<td>Disorders of Primary Hemostasis</td>
<td>Chapter 31 pp. 671-698</td>
</tr>
<tr>
<td>March 2</td>
<td>Disorders of Primary Hemostasis</td>
<td></td>
</tr>
<tr>
<td><strong>March 9-13</strong></td>
<td>Spring Break</td>
<td></td>
</tr>
<tr>
<td>March 16</td>
<td>Case Studies</td>
<td></td>
</tr>
<tr>
<td><strong>March 23</strong></td>
<td>Exam 1</td>
<td></td>
</tr>
<tr>
<td>March 30</td>
<td>Disorders of Secondary Hemostasis</td>
<td>Chapter 32 pp. 699-730</td>
</tr>
<tr>
<td>April 6</td>
<td>Disorders of Secondary Hemostasis</td>
<td></td>
</tr>
<tr>
<td>April 13</td>
<td>Thrombophilia and Thrombosis</td>
<td>Chapter 33 pp. 731-761</td>
</tr>
<tr>
<td>April 20</td>
<td>Thrombophilia and Thrombosis</td>
<td></td>
</tr>
<tr>
<td>April 27</td>
<td>Case Studies</td>
<td></td>
</tr>
<tr>
<td><strong>May 4</strong></td>
<td>Exam 2</td>
<td></td>
</tr>
</tbody>
</table>
May 13
Final Exam Comprehensive