COURSE DESCRIPTION

This course studies the formation, function and identifying characteristics of the cellular elements of human blood in healthy and diseased states. The course also includes evaluation of hemostasis. Lecture and laboratory emphasize hematological pathologies and laboratory procedures used in differential diagnosis. Emphasis is on advanced clinical correlation and topics in hematology.

LEARNING OUTCOMES

The student will be able to:

1. Evaluate anemias, white cell abnormalities and coagulation disorders based on clinical and laboratory information.
2. Evaluate laboratory test results and correlate with clinical history.
3. Select appropriate laboratory procedures useful in the diagnosis and confirmation of hematological disorders.
4. Summarize clinical laboratory and hematology research literature.

The specific lecture and laboratory objectives are contained in the lab manual. All examination questions are keyed to those objectives.

GRADES

The final grade will be based on the points scored on a comprehensive final examination, four term examinations, attendance, and graded laboratory and class evaluations.

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<thead>
<tr>
<th>ACTIVITY</th>
<th>PERCENT OF GRADE</th>
<th>DATE</th>
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<tbody>
<tr>
<td>TEST 1</td>
<td>10%</td>
<td>JANUARY 28</td>
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<tr>
<td>TEST 2</td>
<td>10%</td>
<td>FEBRUARY 25</td>
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<tr>
<td>TEST 3</td>
<td>10%</td>
<td>MARCH 25</td>
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<tr>
<td>TEST 4</td>
<td>15%</td>
<td>APRIL 15</td>
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<tr>
<td>ATTENDANCE</td>
<td>5%</td>
<td>WEEKLY</td>
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<tr>
<td>LAB/CLASS EVALUATIONS</td>
<td>25%</td>
<td>WEEKLY</td>
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<tr>
<td>FINAL</td>
<td>25%</td>
<td>MAY 11</td>
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Laboratory and class evaluations should be turned into the instructor at the beginning of class or lab the week following the assignment. Work will not be accepted late and a zero will be given for the assignment. Unscheduled quizzes will be given during lecture and laboratory sessions and a zero will be given for a missed quiz.

All tests will be multiple choice with some short answer. 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:
GRADE APPEALS

As stated in the Texas A&M University-Corpus Christi University Rules and Procedures (Section B [Academic Program], Pat 13 [Students]: 13.02.99.C2 [Student Grade Appeals] and 13.02.99C2.01 [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 on 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, consult the University Rules and Procedures specified above (accessible through the University Rules and Procedures website at http://www.tamucc.edu/provost/university_rules/index.html). For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

ACADEMIC HONESTY

The University catalog contains the university statement on academic integrity. It is essential that anyone considering a health career demonstrate honesty and integrity in their academic and professional life. Therefore, cheating will not be tolerated and will result in a failing grade in the course and possible further disciplinary action by the university.

ATTENDANCE

Attendance is required, and if you miss a class, you are expected to know the material covered in class. If you miss a scheduled laboratory, and samples or reagents are not available, a zero will be given for that portion of the grade in the assignment. Other parts of that assignment must be turned in on time for a partial grade. Examinations may only be taken during the scheduled time.

AMERICANS WITH DISABILITIES ACT (ADA)

Texas A&M University-Corpus Christi is committed to providing persons with disabilities an equal opportunity to access campus facilities, resources and programs. The 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 for their disabilities. Support and accommodations are also available for returning veterans who experience cognitive and/or physical access issues in the classroom or on campus. Our Office of Disability Services arranges such support and academic accommodations. To make a request, or for more information, call (361) 825-5816 or visit the office in Driftwood 101. It is important to contact the Office of Disability Services in a timely fashion as it will take time for them to review requests and prepare accommodations and accommodation letters.

TEXT

Required:
Clinical Laboratory Hematology by McKenzie
Laboratory Notebook and Lecture Notes
January 14 – Introduction/Review
January 19 - Lab – Laboratory 1 - Differential Introduction
January 19 - Review
January 21 – Review
January 26 - Lab – Laboratory 2 – CD Test
January 26 – Anemia Introduction
Lab – Laboratory 4 – Differentials
January 28 – TEST 1
February 2 - Lab – Laboratory 3 - Differentials
February 2 – Microcytic Anemias
February 4 – Macrocytic Anemias
February 9 - Lab – Laboratory 4 - Differentials
February 9 – Normocytic Anemias
February 11 – Hemolytic Disease
February 16 - Lab – Laboratory 5 – Microcytic/Macrocytic Anemias/Differentials
February 16 – Hemolytic Disease
February 18 – Hemoglobinopathies
February 23 - Lab – Laboratory 6 – Case Studies/Differentials
February 23 – Review
February 25 - TEST 2
March 2 - Lab – Laboratory 7 – Hemolytic Test Procedures/Differentials
March 2 - Thalassemias
March 4 - Abnormal Leukocytes/Lymphocytes
March 9 - Lab – Laboratory 8 – Hemoglobinopathies/Differentials
March 9 – Special Stains
March 11 - Myeloid Leukemias

SPRING BREAK – March 15 - 19

March 23 - Lab - Laboratory 9 – Case Studies/Differentials
March 23 – Review
March 25– TEST 3
March 30 - Lab – Laboratory 10 - Abnormal Leukocytes/lymphocytes/Differentials
March 30 – Lymphoid Leukemias
April 1 – Lymphomas/Myeloproliferative/Myelodysplastic
April 6 – Lab - Laboratory 11 – Myeloid/Lymphoid Leukemias/Differentials
April 6 – Coagulation Review/Platelets

TACL Conference – April 7 - 10

April 13 - Lab – Laboratory 12 – Platelets
April 13 – Review
April 15 – TEST 4
April 20 - Lab - Laboratory 13 – DIC
April 20 – DIC/Fibrinolysis
April 22 – Coagulation Deficiency
April 27 – Lab - Laboratory 14 - Coagulation Deficiencies
April 27 – Thrombosis
April 29 – Hematology/Coagulation Cases/Review
May 4 - Review

May 11 – Final – 11:00 AM – 1:30 PM

Schedule is subject to change. Changes may be announced during any class or Laboratory session