COURSE DESCRIPTION - This course studies the theoretical aspects of the immune response and its relationship to the diagnosis of disease and immunohematology. Lecture and laboratory stress the methods used to solve problems in ABO and Rh typing, blood group antibodies, compatibility testing, blood and component selection and hemolytic disease of the newborn. Emphasis is placed on advanced clinical immunology topics and procedures.

COURSE LEARNING OUTCOMES
The student will be able to:
1. evaluate and solve problems in the immunohematology and serology laboratories.
2. evaluate laboratory test results and correlate with clinical history.
3. select appropriate laboratory procedures useful in the diagnosis and confirmation of immunohematological and immunological disorders.
4. develop laboratory procedures following internal and external regulations.

The specific lecture and laboratory objectives are contained in a separate document. 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, and graded laboratory and class evaluations. Ten percent of the final examination will be a comprehensive practical examination.

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<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>FEBRUARY 2 (Lab)</td>
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<td>TEST 2</td>
<td>10%</td>
<td>FEBRUARY 19</td>
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<td>TEST 3</td>
<td>10%</td>
<td>MARCH 12</td>
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<td>TEST 4</td>
<td>15%</td>
<td>APRIL 6 (Lab)</td>
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<td>ATTENDANCE</td>
<td>5%</td>
<td>WEEKLY</td>
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<td>LAB AND CLASS EVALUATIONS</td>
<td>25%</td>
<td>WEEKLY</td>
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<tr>
<td>FINAL</td>
<td>25%</td>
<td>MAY 12</td>
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Laboratory and class evaluations must be turned into the instructor 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 lab and a zero will be given for a missed quiz.
All tests will be multiple choice with some short answer. 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

HONESTY

The college catalog and student handbook contain 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 possibly 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)

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. If you believe you have a disability requiring an accommodation, please contact the Disability Services Office at (361) 825-5816 or visit the office in Driftwood 101.

TEXT

Required:

Modern Blood Banking and Transfusion Practices by Harmening
Immunology and Serology in Laboratory Medicine by Turgeon
Laboratory Manual and Clinical Immunology Lecture Notes
January 15 – Class Introduction
January 20 – Review
January 22 – Review
    Lab - Laboratory 1 - Problem Solving
January 27- SOP/Inspections
January 29 - ABO/Rh Problems
    Lab - TEST 1 and Laboratory 2 - Quality Control II
February 3 - Other Blood Group Systems
February 5 - Other Blood Group Systems
    Lab - Laboratory 3 - ABO Problems/Rh Genotypes
February 10 - Antibody Problems
February 12 - Antibody Problems
    Lab - Laboratory 4 - Antibody Identification
February 17 – Crossmatch Problems/Review
February 19 - TEST 2
    Lab - Laboratory 5 - Crossmatch
February 24 - Blood Components
February 26 - Transfusion Complications
    Lab - Laboratory 6 - Compatibility Problems
March 3 - Hemolytic Disease
March 5 – Hemolytic Disease
    Lab - Laboratory 7 - Transfusion Complications
March 10 – Review
March 12 – TEST 3
    SPRING BREAK - MARCH 16 – 20
March 24 – Hemolytic Disease of the Newborn
TACLs – March 25-28
    Lab - Laboratory 9 – Hemolytic Disease/Hemolytic Disease of the Newborn
March 31 – TORCH
April 2 – Autoimmune
    Lab – TEST 4
April 7 - Autoimmune
April 9 – Review
    Lab – Laboratory 10 - TORCH
April 14 - HLA
April 16 - Immunodeficiency
    Lab - Laboratory 11 – Autoimmune
April 21 – Parentage/ Immuno developments
April 23 – Review / Cases
    Lab - Laboratory 12 - Laboratory Practical
April 28 – Review
April 30 – Review
    Lab – Laboratory 13 – Practical
May 5 - Review

MAY 12 – FINAL/LAB PRACTICAL WRITTEN –11:00 – 1:30 PM
Schedule is subject to change. Changes may be announced during any class or laboratory session.