BIOLOGY F465 Section F01: IMMUNOLOGY
Spring 2003

INSTRUCTOR: Debra Bartelt, Ph.D.
Office Hours: 11:30 am - 12:30 pm, Mondays and Wednesdays; or by appointment
Office: 307A Bunnell (main campus)
Telephone: 907-474-7095 or 907-474-7671 (Dept. of Biology & Wildlife office)
E-mail: fdb1@uaf.edu

REQUIRED TEXT:

RECOMMENDED TEXT:

OTHER TENTATIVE READING MATERIALS: May be assigned from the primary scientific literature.

COURSE DESCRIPTION:
Taken directly from the UAF course catalog.

BIOL 465 (3 Credits) Alternate Spring
Immunology (3+0)
Adaptive immune response including its components and activation from cells to molecules, clonal selection, antigen recognition, and discrimination between foreign and self. Concepts applied on the level of intact organisms addressing allergies, autoimmunity, transplantation, tumors and disease (AIDS). (Prerequisites: BIOL 105X; 106X and 310, or BIOL 111X and 112X; or permission of instructor. Next offered: 2002-03.)

COURSE OBJECTIVES:
The overall goal of this course is to provide biology majors with a background in basic and applied immunology. Particular emphasis will be given to the role that the immune system plays in human health and disease. Internet resources may be utilized in lecture delivery. Students will have a written assignment that will be due in the middle of the semester, and an oral presentation that is delivered at the end of the semester. Topics for written and oral presentations will need the instructor’s prior approval, and more specific guidelines will be provided later in the course. The written assignment will be an individual effort, but students may work in pairs for the oral presentation. The goals behind the written and oral presentations are to stimulate thoughtful discussion, encourage students to explore and engage in scientific inquiry, and enhance student understanding of course material.

BLACKBOARD POLICIES:
Students are responsible for acquiring a valid student UAF aurora ID account in order to be entered as student user. The UAF Dept. of Computing and Communications issues aurora ID accounts. Postings to the BIOL 465 Blackboard site are to assist student access to certain course material and their grades. It is the students’ choice whether or not they wish to access the BIOL 465 Blackboard site.

GRADING POLICY:
The point distribution is given below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>lecture exams</td>
<td>300</td>
</tr>
<tr>
<td>comprehensive lecture final</td>
<td>200</td>
</tr>
<tr>
<td>written assignment</td>
<td>50</td>
</tr>
<tr>
<td>oral presentation</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>600</td>
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</tbody>
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Grades will be determined by total point accumulation throughout the semester. I do not “round up” to the nearest whole number. The point ranges that equate to letter grades are given below:

A = 540.0 - 600.0 points
B = 480.0 - 539.9 points
C = 420.0 - 479.9 points
D = 360.0 - 419.9 points
F = 0 - 359.9 points

BIOLOGY F465: IMMUNOLOGY
ATTENDANCE, MAKE-UP AND EXAM POLICIES:
Attendance at lectures and exams is strongly encouraged. Lecture exams will be based on reading assignments and lecture materials. Exams may consist of a combination of multiple choice, true and false, fill in the blanks, matching, short answers, and/or essay. Make-up exams or extensions on assignments are rarely granted. Student(s) must notify the instructor within 48 hours of the exam/assignment due date if they anticipate a conflict with the assessment schedule or have inadvertently missed an exam/assignment. Notification does NOT entitle the student to a make-up exam or extension on an assignment due date. However, notification does allow the instructor to consider a request for alternate arrangements. Any requests for a make-up exam or assignment extension must be supported by documentation of a legitimate excuse. Exam question challenges/rebuttals/justifications must be submitted in WRITING (e-mail preferred) to the instructor within 48 hours of the time graded exams are returned to students.

CLASSROOM BEHAVIOR POLICIES:
Appropriate adult behavior is expected. Disruptive classroom behaviors that interfere with the learning and academic environment will not be tolerated. Common disruptive behaviors include (but are not limited to): grandstanding; sleeping in class; personal conversations with other students unrelated to the course; prolonged chattering; excessive lateness; overt inattentiveness; passing notes; unexcused exits from class; eating/loud mastication; carrying pagers/beepers/cell phones; honor code violations; verbal or physical threats to the instructor or other students; and disputing the instructor's authority and expertise. Any student(s) engaging in such behavior will be asked to refrain from such behavior and/or leave the classroom. Plagiarism and academic dishonesty (cheating) are serious offenses and may result in failure on exams, assignments, quizzes, or the course.

Any concerns/issues/comments/suggestions or other input regarding this course should be brought directly to the instructor. If a solution can not be worked out between the student and the instructor, then the Dept. of Biology & Wildlife chair will become involved. The process is to come to the instructor FIRST.
Immunology
Biology 465  Spring 2003

1. Jan. 17  Class Introduction
2. Jan. 20  Alaska Civil Rights Day  No Class
3. Jan. 22
4. Jan. 24
5. Jan. 27
6. Jan. 29  Chapter 22  Histology/cell biology
7. Jan. 31  Chapter 22  Histology/cell biology
8. Feb. 3  Chapter 22  Histology/cell biology
9. Feb. 5  Chapter 22  Histology/cell biology
10. Feb. 7  Chapter 23  Cancer
11. Feb. 10  Chapter 23  Cancer
12. Feb. 12  Chapter 23  Cancer
13. Feb. 14  Chapter 23  Cancer
14. Feb. 17  Exam I
15. Feb. 19  Chapter 24  The Adaptive Immune System
16. Feb. 21  Chapter 24  The Adaptive Immune System
17. Feb. 24  Chapter 24  The Adaptive Immune System
18. Feb. 26  Chapter 24  The Adaptive Immune System
19. Mar. 3  Chapter 24  The Adaptive Immune System
20. Mar. 5  Chapter 24  The Adaptive Immune System
22. Mar. 10  Supplemental readings  The Adaptive Immune System
23. Mar. 12  Exam II
27. Mar. 26  Chapter 25  Pathogens, Infection & Innate Immunity
29. Mar. 31  Chapter 25  Pathogens, Infection & Innate Immunity
30. Apr. 2  Supplemental readings  Applied Immunology
31. Apr. 4  Supplemental readings  Applied Immunology
32. Apr. 7  Supplemental readings  Applied Immunology
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Apr. 9</td>
<td>Supplemental readings</td>
<td>Hypersensitivity/allergy</td>
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<tr>
<td>Apr. 11</td>
<td>Supplemental readings</td>
<td>Hypersensitivity/allergy</td>
</tr>
<tr>
<td>Apr. 14</td>
<td>Supplemental readings</td>
<td>Autoimmunity and autoimmune diseases</td>
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<tr>
<td>Apr. 16</td>
<td>Supplemental readings</td>
<td>Autoimmunity and autoimmune diseases</td>
</tr>
<tr>
<td>Apr. 18</td>
<td>Supplemental readings</td>
<td>Autoimmunity and autoimmune diseases</td>
</tr>
<tr>
<td>Apr. 21</td>
<td><strong>Exam III</strong></td>
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<tr>
<td>Apr. 23</td>
<td>Student oral presentations</td>
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<tr>
<td>Apr. 25</td>
<td><strong>All Campus Day</strong></td>
<td><strong>No Class</strong></td>
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<tr>
<td>Apr. 28</td>
<td>Student oral presentations</td>
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<tr>
<td>Apr. 30</td>
<td>Student oral presentations</td>
<td></td>
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<tr>
<td>May 2</td>
<td>Student oral presentations</td>
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<tr>
<td>May 5</td>
<td>Review</td>
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May 9 8:00-10:00 AM **COMPREHENSIVE FINAL EXAM**

While the exact dates of the lectures may change, the order should remain approximately the same. Use the outline as a guide to direct your reading. Any changes to the syllabus will involve student input.