Syllabus
Biol 4350-001, Immunology
Spring 2022, TR 9:30-10:50 AM, Braithwaite Bldg, Room #01030

PROFESSOR
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aazghani@uttyler.edu
http://www.uttyler.edu/directory/biology/azghani.php

OFFICE HOURS
Tue. & Wed. 11:00 – 12:00 or by appointment; BEP, Room #105 (The best way to contact me is email)

REQUIRED TEXT BOOK
IMMUNOLOGY, 7th edition, Coico & Sunshine, WILEY Blackwell
Paperback: ISBN: 978-1-118-39691-9, 2015; List Price: about $40.00. A brand-new book will come with a code for a free E-Text and discounted access to “CourseSmart”, a nice online resource, but is not required in this course. For more information, please visit www.wileyimmunology.com/coico;
www.vitalsource.com/software/bookshelf/downloads;
www.coursesmart.com/students

Reference books: The Immune System by Parham; Kuby Immunology; Janeway's Immunobiology.

ATTENDANCE/PARTICIPATION
Immunology is a conceptually challenging topic and student’s attendance and participation are essential for dynamic class discussions and learning. If you miss class, it is your responsibility to contact your teammates (not the instructor) to get notes and other announcements made during class. Your attendance and participation will be recorded by Roll call, answering questions, and joining discussions during each class period.

COURSE OVERVIEW
This course will provide basic knowledge on the principles of the Immune System at cellular and molecular level. Current topics include the development and physiology of the immune system, Immunotherapy, and the pathophysiology of immune-mediated diseases.

STUDENT LEARNING OUTCOMES
1. Know the molecules, cells, and organs of the immune system
2. Learn the players of, differences between, and integration of innate and adaptive immunity
3. Comprehend the immunologic processes involved in targeting pathogens, transplants, and cancer cells.
4. Understand the molecular mechanisms behind pathologic functions of the immune system.
5. Develop critical thinking skills and problem-solving strategies
ASSIGNMENTS AND WEIGHTS/POINT VALUES

Attendance and Participation (10%): This will be an interactive class and students are expected to read the assigned material before lecture sessions, participate in class discussion, and answering in-class questions on Canvas. Students are allowed to miss one lecture/each exam period without penalty.

Online Quizzes on Canvas (20%): You will have a prescheduled class quiz at the conclusion of each chapter. No make-up quiz will be given. I will, however, drop 2 lowest quiz grades for each student. So, if you miss a quiz for any reason, including illness and excused travel absence, that quiz will be counted as a dropped quiz score.

Three Midterm Exams (50%): Multiple choice questions will cover material from corresponding chapters. No make-up exams will be given without prior notification except medical emergencies with physician note. Chapter readings are to be used as reference material to class lectures and PPs.

Comprehensive Final exam (20%): M/C questions from recent chapters as well as queries from earlier chapters.

No additional work for extra credit will be given at the end of the semester.

Letter grades will be assigned according to the following scale: A = 90-100, B = 80-89, C = 70-79, D = 60-69.

Grade rounding: If your final course grade is within 0.5 point of the next letter grade, it will be rounded up automatically. The only other adjustment that will be made is if the final percentage is within one point of next letter grade and, the student has missed three or less lectures throughout the semester.

Academic Integrity: Students should be aware that absolute academic integrity is expected of every student in all undertakings at The University of Texas at Tyler. Failure to comply can result in strong university-imposed penalties.

SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>LECTURE</th>
<th>CHAPTER</th>
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<tbody>
<tr>
<td>Jan 10 - 31</td>
<td>Class orientation, Overview of the Immune System</td>
<td>1</td>
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<tr>
<td></td>
<td>Innate Immunity</td>
<td>2 &amp; 14</td>
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<td>Adaptive Immunity</td>
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<td>Cytokines</td>
<td>12</td>
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<td>27</td>
<td>Census Date – Deadline for Registrations &amp; Schedule Changes</td>
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<tr>
<td>Feb 01</td>
<td>Exam 1</td>
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<td>3 – 28</td>
<td>Immunogens and Antigens</td>
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<td>Antibody Structure and Function</td>
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<td>Antigen–Antibody Interactions, Immune Assays</td>
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<td>The Genetic Basis of Antibody Structure</td>
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March 01  Exam 2

03  Biology of the B Lymphocyte  8

7 – 11  Spring Break

15 - 31  Antigen Recognition by T Cells: The Role of the MHC Complex  9
Biology of the T Lymphocyte  10

30th  Last Day to Withdraw with an Automatic "W"

April  5 & 7  Activation and Function of T Cells  11

April  12  Exam 3

April  14-21  Tolerance and Autoimmunity  13
Hypersensitivity  15, 16, 17
Resistance and Immunization to Infectious Diseases  21

I doubt we will have time to cover the following chapters, however, they will be cited during “case study/pathophysiology” discussions.

Immunodeficiency Disorder  18
Transplantation  19
Tumor Immunology  20

FINAL EXAM – TBA- April 25-29

GENERAL INFORMATION

Please refer to “Student Resources” and “University Policies and Information” on Canvas.