Biol 4350- Immunology
Course Syllabus
Spring 2020
TR 9:30 - 10:50 AM

INSTRUCTOR
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Professor of Biology
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Office hours: W.F. 11:00 – 12:30 or by appointment.

REQUIRED COURSE MATERIAL

Textbook: IMMUNOLOGY, 7th edition, Coico & Sunshine, WILEY Blackwell
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

Turning Technology (Clicker): For this course you will need to purchase a NXT Clicker Response Pad
AND a Turning Account from turning technology. The clicker will be used to answer questions during the
lecture and for class quizzes. You will be responsible for bringing the Response Pad (cell phone option is
available as well) to every session throughout the semester. Otherwise, I will mark you as “present” but you
will lose your participation/class quiz points as I will not grade the written answers.

You will need to activate your clicker account within the first week of class.

ATTENDANCE/PARTICIPATION

Attendance and participation are essential to succeed in this class. If you miss class it is your responsibility to
contact another student (not the instructor) to get notes and other announcements made during class. Your
attendance and participation will be recorded by answering the clicker questions during each class period.

COURSE DESCRIPTION

This course will provide basic knowledge on the principles of the Immune System at cellular and molecular
level. Current topics include the development and physiological & pathological functions of humeral & cell-
mediated immunity and immunotherapy.

SPECIFIC OBJECTIVES

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
GRADING POLICY

Attendance and Participation (10% of each major test): This will be an interactive class and students are expected to read the assigned material before lecture sessions, participate in class discussion, and take pop quizzes. Students are allowed to miss one lecture/each exam period without penalty.

Class Quizzes (20% of each major test): You will have a prescheduled class quiz at the conclusion of each chapter. The quiz will be given in the beginning of the following lecture session using the clicker. Just like attendance grades, these grades will comprise 20% of each major exam. No make-up quiz will be given. I will, however, drop one low quiz grade 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.

Four Tests – 25% each: Each lecture exam will consist of multiple choice and will cover material from the lecture. No make-up exams will be given without notification prior to the exam. Chapter readings are to be used as reference material to assist with lecture material. They may contain more information than you will be responsible for, so use the book with this in mind. Daily attendance is expected, (on time) and only medical excuses for missing tests will be accepted. Common courtesy is expected in class – Turn off Phones, Stop navigating Webs, and Pay attention!
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 the 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. I will notify University Administration of any cheating!

SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>LECTURE</th>
<th>CHAPTER</th>
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<tbody>
<tr>
<td>Jan 13 - 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>
<td>3</td>
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<td></td>
<td>Cytokines</td>
<td>12</td>
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<tr>
<td>27</td>
<td>Census Date – Deadline for Registrations &amp; Schedule Changes</td>
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<tr>
<td>Feb 04</td>
<td>Exam 1</td>
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<td>Feb 6 – 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, and Experimental Systems</td>
<td>6</td>
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<td>The Genetic Basis of Antibody Structure</td>
<td>7</td>
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<td>March 03</td>
<td>Exam 2</td>
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<td>05 - 17</td>
<td>Biology of the B Lymphocyte</td>
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<td>9 – 13</td>
<td>Spring Break</td>
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<td>19 - 24</td>
<td>How T Cells Recognize Antigen: The Role of the MHC Complex</td>
<td>9</td>
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<tr>
<td>26 - 31</td>
<td>Biology of the T Lymphocyte</td>
<td>10</td>
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30th Last Day to Withdraw with an Automatic "W"

April 2 - 7 Activation and Function of T Cells

April 09 EXAM 3

April 14 – 23 Tolerance and Autoimmunity
Hypersensitivity (Lecture 13 on PP folder on Canvas)
Resistance and Immunization to Infectious Diseases

I doubt we will have time to cover the following chapters, however, they will be mentioned during “case study/pathophysiology” discussions.
Immunodeficiency Disorder & Neoplasia of Lymphoid System
Transplantation
Tumor Immunology

April 27 Study Day (for some)
28 – May 2 Finals

GENERAL INFORMATION

UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www.uttler.edu/wellness/rightsresponsibilities.php

Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at http://www.uttler.edu/about/campus-carry/index.php

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kretex, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.
There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.uttyler.edu/registrar. Each semester’s Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.

- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)

- Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)

- Being reinstated or re-enrolled in classes after being dropped for non-payment

- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the
extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit https://hood.accessiblelearning.com/UTTyler and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at http://www.utyler.edu/disabilityservices, the SAR office located in the University Center, # 3150 or call 903.566.7079.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.
Student Standards of Academic Conduct

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

i. "Cheating” includes, but is not limited to:

- copying from another student’s test paper;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed “crib notes”. The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
- falsifying research data, laboratory reports, and/or other academic work offered for credit;
- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
“Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.

“Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.

All written work that is submitted will be subject to review by plagiarism software.

UT Tyler Resources for Students

- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Counseling Center (903.566.7254)