

THE UNIVERSITY OF TEXAS AT BROWNSVILLE

BMED 4280-1 – Medical Immunology

SPRING 2017 LHS 61 1.410

10:50 am - 12:30 am T

COURSE SYLLABUS

Instructor: Alexander Kazansky, Ph.D.
Associate Professor

Location: Life & Health Sciences # 61 1.410

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Hours:

You may contact me using any of the information shown above. Please feel free to reach me if you have any questions regarding content, if you need clarification, or would like assistance.

COURSE DESCRIPTION

The advance course of medical immunology will relate the scientific findings in immunology with clinical problems. It will illustrate in a clinical context essential points about mechanism of immunity. Course will cover critical importance of the design of proper diagnostic approach and its interpretation based on modern knowledge of immunology.

STUDENT LEARNING OUTCOMES

Students should understand major immunological concepts and principles.
Summarize the role of the host immunity in innate and adaptive immune response.
Students should be able to relate the immunological knowledge to clinical problem.
Students should effectively communicate scientific immunological data and ideas, both orally and in writing.
Compare and contrast therapeutic treatment for immunological disease.

Departmental learning outcomes that are met by this course are:

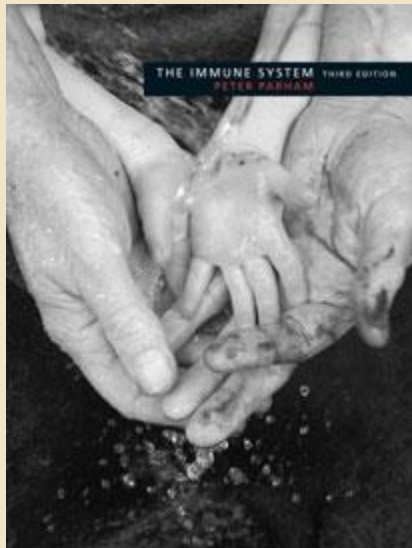
1. Students will be able to demonstrate a substantial factual knowledge base and a grasp of the major concepts of biological systems and be able to relate them to human anatomy/physiology in health and disease.
2. Students will perform satisfactorily in standardized graduate examinations.
4. Students will be able to communicate complex scientific ideas, concepts and theories by oral and written means
5. Students will appreciate the role of research in the biological, biomedical and clinical sciences

COURSE PRE-REQUISITES, CO-REQUISITES, AND/OR OTHER RESTRICTIONS

Prerequisite: BMED 1106 and BMED 1107

Requires Approval of Departmental Advisor

TEXTBOOK(S) & OTHER RESOURCES



The Immune System, Third Edition

Author: Peter Parham

Publisher: Garland Science Publishing

ISBN: 978-0-8153-4146-8

From \$ 60.95 – 80.52 (New)

EVALUATION/ASSESSMENT

Your learning will be assessed by three major examinations. These examinations are multiple choice questions and assays. There will be between 30 to 100 questions per exam. The final exam will be comprehensive. Learning and preparedness will also be assessed by unannounced short quizzes covering the assigned work and readings throughout the lecture period. Also presentation of the medical cases will assigned during the course.

GRADING POLICY

You will demonstrate your achievement of program competencies by completing the following types of activities. You must receive at least a 70% to receive credit for demonstrating competence.

The grade will be calculated according to

- A. Two exams each having a weight of 15% each.
- B. Case study presentation 30%
- D. Participation and quizzes 15%
- D. Comprehensive Final Exam --- 25%

UTRGV's grading policy is to use straight letter grades (A, B, C, D, or F).

PROPOSED TOPICS

- 1. Review of Major Principals of Innate and Adaptive immunity.**
- 2. The Body Defense against Infection**
Preventing infection at mucosal surfaces
Immunological memory and the secondary immune response
Bridging innate and adaptive immunity
- 3. Failures of the Body's Defenses.**
Evasion and subversion of the immune system by pathogens
Inherited immunodeficiency diseases
Acquired immune deficiency syndrome
- 4. Over-reaction of the Immune System.**
Type I hypersensitivity reactions
Type II, III, and IV hypersensitivity reactions
- 5. Disruption of Healthy Tissue by the Immune Response.**
Autoimmune diseases
Genetic and environmental factors predispose to autoimmune disease
- 6. Vaccination to prevent Infectious Disease.**
- 7. Transplantation of Tissues and Organs.**
Transplantation of solid organs
Transplantation of hematopoietic stem cells
- 8. Cancer and Its Interaction with the Immune System.**

Calendar of Activities

Jan. 17	Spring classes begin
Jan. 17 – Jan. 23	Last day to withdraw (drop all classes) for a 80% refund
Jan. 24 – Jan. 30	Period to withdraw (drop all classes) for a 70% refund
Jan. 31 – Feb. 6	Period to withdraw (drop all classes) for a 50% refund
Feb. 1	Census Date (Last day to drop without it appearing on the transcript)
Feb. 7 – Feb. 13	Period to withdraw (drop all classes) for a 25% refund
Mar. 13 – Mar. 18	Spring Break. No classes.
April 13	Last day to drop a class (grade of DR) or withdraw (grade of W)
April 14 – April 15	Easter Holiday. No classes.
May 4	Study Day. No classes.
May 5 – 11	Final Exams
May 12 – 13	Commencement Exercises
May 15	Grades Due

UTRGV Policy Statements

STUDENTS WITH DISABILITIES: *Required on all syllabi.* Do not modify.

If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. **Brownsville Campus:** Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

MANDATORY COURSE EVALUATION PERIOD: *Required on all syllabi.* Do not modify.

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (<http://my.utrgv.edu>); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades. Online evaluations will be available:

Nov 18 – Dec 8 for full fall semester courses

ATTENDANCE: Recommended on all syllabi; may be modified by the instructor as long as it is not inconsistent with UTRGV policy.

Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGV's attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

SCHOLASTIC INTEGRITY: Recommended on all syllabi.

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; 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. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:*Required on all syllabi.*Do not modify.

In accordance with UT System regulations, your instructor is a "responsible employee" for reporting purposes under Title IX regulations and so must report any instance, occurring during a student's time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

COURSE DROPS: Recommended on all syllabi; may be modified by the instructor as long as it is not inconsistent with UTRGV policy.

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.