



Course **BIOL-3350, BIOLOGICAL BASIS OF HEALTH AND DISEASE (Sec 001, 002)**
Professor Dr. ILYA SAPOZHNIKOV, M.D., Ph.D.
Term SPRING, 2012
Meetings Sec 001 TR 4.00-5.15PM, HH 2.402;
Sec 002 MW 2.30-3.45 PM, SLC 1.102;

Professor's Contact Information

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Please make use of the email addresses listed above (based on your section) for contact with the Instructor and TAs. Do NOT contact TAs or the Instructor by Elearning mail, but by your UTD e-mail client (Galaxy/Zmail).

Make use of the Elearning discussion board to interact with fellow students. Be aware that this is intended for student use, but is also monitored by TAs and your instructor.

General Course Information

Pre-requisites, Co-requisites, & other restrictions	<p>The course is designed as a science elective open to all majors.</p> <p>The main goal of the course is to make the students aware of the fundamentals of pathophysiology, which focuses on the mechanisms of the diseases. These mechanisms are “the dynamic processes that (1) cause disease, (2) give rise to signs and symptoms, and (3) signify the body’s attempt to overcome disease” (M. Hansen, 1998).</p>
Course Description	<p>The content of the course is chosen to cover conditions, which may affect dramatically the life of an individual and society in modern age. Special emphasis will be given to the preventative aspects of each disease based on non-drug, wellness-promoting approaches.</p> <p>The main outcomes of this course consist in the ability of the students (1) to interpret the pathological conditions of the human body as a result of a misbalanced local and systemic homeostasis; (2) to compare the normal and abnormal responses of the human organism to the different stimuli;(3) to explain the mechanisms of the effects of the specific and non-specific preventative measures;(4) to apply the obtained knowledge to their everyday life experience, using it as a tool for the primary and the secondary prevention of many diseases.</p>
Learning Outcomes	
Required Texts & Materials	<p>Pathophysiology. Concepts of Altered Health States, by Carol Mattson Porth, Glenn Matfin; Eighth Edition(ISBN 978-0-7817-6616-6), Seventh Edition (ISBN 0-7817-4988-3).</p> <p>The following are some websites that provide supplemental information on the issues discussed in the “Biological Basis of Health and Disease” course.</p> <p>http; //www.</p> <ol style="list-style-type: none"> 1. ama-assn.org/ American Medical Association/JAMA 2. americanheart.org American Heart Association 3. cdc.gov/ Centers for Disease Control and Prevention 4. healthfinder.gov Government-sponsored mega site 5. mayohealth.org Mayo Clinic 6. ncbi.nlm.nih.gov/Pubmed/fulltext.html Medline online journal links 7. nih.gov National Institutes of Health 8. pharminfo.com Pharmaceutical 9. rxlist. com <u>Drugs</u> 10. sciam.com/ Scientific American online
Suggested Texts, Readings, & Materials	

Assignments & Academic Calendar

[Topics, Reading Assignments, Due Dates, Exam Dates]

Please note the appropriate date for your exams based on your section number.

Section 001 is the Tue/Thurs section

Section 002 is the Mon/Wed section

Your exam dates are listed next to your section number in the left column. Please make note of your dates and mark in your calendar.

All exams are taken on a scantron. You will need the pink/red/white scantron labeled ParScore Form No. F-1712-PAR-L. ****Tip:** pick up 7 scantrons at off campus books or the UTD bookstore PRIOR to the first exam. This will ensure that you have them for every exam without chancing that supplies run out.*

Reading Assignments: In order to best understand the material presented in lecture, read the assigned chapters prior to class.

UNIT REVIEWS

Unit Reviews must be completed and turned into Victoria Winters office, which is located in FO 3.606A. You will be able to turn in unit reviews a week before the review session. You must also sign your name when you turn in your unit review.

1.The attendance of the Unit Review Sessions is optional (they take place during regular lecture times). No reviews will be accepted during the Unit Review Sessions.

2. Print off another copy of your review to take to the review session to take notes on. If you have answered no less than 70% of the review questions correctly, we will add 3 points to your Unit Exam grade.

3. Failure to submit the review answers will result in a deduction of 5 points (-5) from your Unit Exam grade.

The weeks of January 15,22,29, February 5, 2012	Unit 1: The introduction to the course. Mechanisms of Infectious Disease. Immunity and Inflammation. Alterations in the Immune Response. Acquired Immunodeficiency Syndrome-AIDS. Chapters 16, 17, 18, 19, 20.
Sec 002-2.8.12; Sec 001-2.9.12;	Unit Exam # 1(Chapters 16-20)
The Weeks of February 12, 19,26, 2012	Unit 2: Alterations in Structure and Function of the Female and Male Reproductive Systems. Sexually Transmitted Diseases. Chapters 43, 44, 45,46,47..
Sec 002- 2. 29. 12; Sec 001-3.1.12;	Unit Exam #2 (Chapters 43-47)
The weeks of March 4,18,25 2012	Unit 3: Alterations in Blood Flow in the Systemic Circulation. Alterations in Blood Pressure: Hypertension & Orthostatic Hypotension. Alterations in Cardiac Function. Atherosclerosis. Coronary Heart Disease. Heart Failure and Circulatory Shock. Chapters 21, 22, 23, 24, 25,26.

Sec 002-3. 28. 12; Sec 001- 3. 29.12;	Unit Exam # 3(Chapters 21-26)
The weeks of April 1, 8, 2012	Unit 4: Alterations in Respiratory Function. Respiratory Tract Infections, Childhood Disorders. Alterations in Ventilation and Gas Exchange. Obstructive Airway Disorders. Bronchial Asthma. Impaired Gas Exchange and Respiratory Failure. Chapters 27,28,29.
Sec 002-4. 16.12; Sec 001- 4.17 .12;	Unit Exam #4 (Chapters 27-29)
The weeks of April 15,22,29, 2012	Unit 5: Alterations in Renal Function. Urinary Tract Infections. Disorders of Glomerular Function. Renal Failure. Alterations in Urine Elimination. Chapters 30, 31, 32, 33, 34,35.
Sec 002-5. 2.12 Sec 001-5.3.12	Unit Exam # 5 (Chapters 31- 35);

Time and Date: Based on University Final Exam Schedule: See next page.

FINAL EXAM

**Sec 001- MAY 10, THURSDAY, 2.00-4.45
PM, HH 2.402**

**Sec 002- MAY 14, MONDAY, 2.00-4.45 PM,
SLC 1.102**

Our final exam times are based on the UTD published finals schedule. If you have an instructor who varies from the University exam schedule, creating conflict with this scheduled time, you will need to contact that instructor to make alternate arrangements. You must be present for your final exam at the stated time listed based on your section assignment!

Due to classroom seating limitations and fairness to all students, we are unable to let you take your final exam earlier or later than the schedule dictates for your section. Do not assume you can take the exam with the other section...You are required to show up for testing on your scheduled date or you will be turned away.

Course Policies

Grading (credit) Criteria	<p>Taking all of the Unit Exams is <u>mandatory</u>.</p> <p>For the students who have taken all 5 Unit Exams, the one lowest Unit Exam grade (<i>only if it is no less than 59%</i>) will be dropped.</p> <p>For students who <u>do not take all five Unit Exams or whose lowest scores lower than 59%, NO grades will be dropped.</u></p> <p>The Final Course Grade will be based on the Unit Exams Average plus the Final and will be calculated as the following: 65% from the average of the Unit Exams 25% from the result of the Final Exam 10% from the grade for the Attendance</p> <p><u>Your grade is calculated by the following formula:</u></p>
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	<p>(Unit Exam Avg x .65) + (Final Exam x .25) + (Attendance Grade x .10) = Final Course Grade (%).</p> <p>The final letter grades will be assigned in accord with the following numerical scale: 97-100-A+ 92-96-A 89-91-A- 85-88-B+ 82-84-B 79-81-B- 75-78-C+ 72-74-C 69-71-C- 65-68-D+ 62-64-D 59-61-D- <59-F</p>
Make-up Exams	There are no retakes. Make-up exams will be given only in the case of a <u>documented excuse</u>. We must have documentation no later than the 1st class after your absence.
Extra Credit	Five bonuses for each correctly answered of the pop-quizzes that are given periodically during the lecture (the score should be no less than 70%) will be added to the grade of the appropriate unit exam.
Late Work	n/a
Special Assignments	n/a
Class Attendance	Regular attendance is encouraged to the utmost. Ten percent of the Final Grade will come from the Grade for the Attendance.
Classroom Citizenship	<p>Out of respect for your fellow students and the Professor, we ask that you are attentive during the entire lecture. Distractions make it difficult for the entire class to learn. This material can be difficult, so your dedication to learning is expected by engaging with the professor and minimizing anything that prevents concentration for those around you. You are expected to be attentive and take notes during lecture. You must arrive on time and sit for the entire lecture time unless previous arrangements have been made and your TA has been informed (based on an approved situation).</p> <p><u>Cell Phones</u>: Cell phones must be turned off or to silent. Use of cell phones for texting, playing games or other activities will not be tolerated.</p> <p><u>Laptops</u>: You are permitted to use laptops during lecture but it is preferred that you take written notes. If you bring a laptop to class it must be for note taking purposes only. If you do not use it for this purpose the TAs will ask you to close the laptop for the remainder of class. No surfing the web, checking email or social networking during lecture time.</p> <p><u>Restrooms</u>: Restrooms are conveniently located in each building. Please make use of these facilities before or after lecture.</p>
Field Trip Policies	n/a
Student Conduct and Discipline	The University of Texas System and The University of Texas at Dallas have rules and

	<p>regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, <i>A to Z Guide</i>, which is provided to all registered students each academic year.</p> <p>The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the <i>Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3</i>, and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i>. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).</p> <p>A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.</p>
Academic Integrity	<p>The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.</p> <p>Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.</p> <p>Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.</p>
Email Use	<p>The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.</p>
Withdrawal from Class	<p>The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to</p>

	<p>handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.</p>
<p>Student Grievance Procedures</p>	<p>Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i>.</p> <p>In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the deal will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.</p> <p>Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.</p>
<p>Incomplete Grades</p>	<p>As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.</p>
<p>Disability Services</p>	<p>The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.</p> <p>The contact information for the Office of Disability Services is: The University of Texas at Dallas, SU 22 PO Box 830688 Richardson, Texas 75083-0688 (972) 883-2098 (voice or TTY)</p> <p>Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.</p> <p>It is the student's responsibility to notify his or her professors of the need for such an</p>

	<p>accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.</p>
<p>Religious Holy Days</p>	<p>The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.</p> <p>The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.</p> <p>If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.</p>
<p>Off-Campus Instruction and Course Activities</p>	<p>Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean.</p>

These descriptions and timelines are subject to change at the discretion of the Professor.