



Course **BIOL-1300, BODY SYSTEMS WITH LAB**
(Sec 001, 002, 003)
Professor Dr. ILYA SAPOZHNIKOV, M.D., Ph. D.
Term SPRING, 2009
The Lectures for all Sections: MW1.30-2.20 PM,
CONFERENCE CENTER, CN 1.102
Meetings The Lab: Sec 001-MW 8.30-9.20 AM; Sec 002-MW 9.30-
10.20 AM; Sec 003-MW 10.30-11.20 AM, FN 2.202-
2.204.

Professor's Contact Information

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Office Hours MW 4.30-5.30 PM

THE LEAD TA FOR ALL SECTIONS IS KIMBERLY McCOLLARS,
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General Course Information

Pre-requisites, Co-requisites, & other restrictions

The course is designed as a science elective open to all majors

Course Description

The main goal of the course is to give to a college-educated person, whose specialty is far aside the biomedical field, an indispensable knowledge of the structure and the functions of the human body. Along with the providing of the essentials of Human Anatomy and Physiology, as well as the basic information about the main diseases and

disorders, the course will stress out the concept of the body as an integrated whole. Special considerations will be given to the preventative and self-care approaches, which are becoming more emphasized in the modern medicine.

The course is divided into seven units. Each division is based on a conceptual and/or functional principle and is comprised of a set of the chapters in the Textbook.

The Study Guide is divided identically and consists of the different types of exercises that make the assimilation of the Textbook easier for the students.

The Lab sessions are correlated with the content of the lectures and will consist mainly in the learning of the anatomical structures using the three-dimensional models of the human body.

The students are expected to comprehend the following cardinal principles after the completion of the course:

Learning Outcomes

1. The complexity of the body systems interaction and interdependence.
2. The concept of the homeostasis.
3. The classification of the different conditions of the body, denoted by a specific medical term.
4. To apply the informational and the ideological content of the course to their everyday life, implementing the risk factors reducing behavior.

Required Texts & Materials

1. Memler's The Human Body in Health and Disease, 10-th edition, By Barbara Janson Cohen (ISBN 0-7817-4232-3);
2. Study Guide for Memler's The Human Body in Health and Disease, 10-th edition, by Barbara Janson Cohen and Kerry L. Hull 9ISBN 0-7817-5172-1).

Suggested Texts, Readings, & Materials

The following are some websites that provide the supplemental information on the issues discussed in the "BODY SYSTEMS" course.
[http://www.](http://www.ama-assn.org/)

1. [ama-assn.org/](http://www.ama-assn.org/) American Medical Association/JAMA
2. [americanheart.org](http://www.americanheart.org) American Heart Association
3. [cdc.gov](http://www.cdc.gov) Centers for Disease Control and Prevention
4. [heathfinder.gov](http://www.heathfinder.gov) Government –sponsored mega site
5. [mayohealth.org](http://www.mayohealth.org) Mayo Clinic
6. [ncbi.nlm.nih.gov/Pubmed/fulltext.html](http://www.ncbi.nlm.nih.gov/Pubmed/fulltext.html) Medline online journal links
7. [nih.gov](http://www.nih.gov) National Institutes of Health
8. [pharminfo.com](http://www.pharminfo.com) Pharmaceutical
9. [rxlist.com](http://www.rxlist.com) Drugs
10. [sciam.com](http://www.sciam.com) Scientific American online

Assignments & Academic Calendar

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

The week of January 11, 2009 Unit 1(chapters 1-4) Introductory Lecture. The Body as a Whole. Organization of the Human Body. Cells and their Functions. Tissues, Glands, and Membranes.

The week of January 18, 2009 Unit 2 (Chapter 5) Disease and Disease-Producing Organisms.

The week of January 25, 2009 Units 2, 3 (Chapters 6-7) The Skin in Health and Disease. The Skeleton: Bones and Joints

February 4, 2009 **UNIT EXAM #1 (Chapters 1-6)**
The week of
February 1, 2009 Unit 3 (Chapter 8) The Muscular System
The week of
February 8, 2009 Unit 4 (Chapter 9) The Spinal Cord and Spinal Nerves
February 9, 2009 **Lab Practical # 1 (Chapters 1-8)**
February 11, 2009 **UNIT EXAM # 2 (Chapters 7-8)**
The week of
February 15, 2009 Unit 4 (Chapter 10) The Nervous System: The Brain and Cranial Nerves
The week of
February 22, 2009 Unit 4 (Chapter 11) The Sensory System
The week of
March 1, 2009 Unit 4 (Chapter 12) The Endocrine System: Glands and Hormones
The Week of
March 8, 2009 Unit 5 (Chapters 13-17) The Blood. The Heart and Heart Disease.
March 9, 2009 **Lab Practical #2 (Chapters 9-12)**
March 11, 2009 **UNIT EXAM # 3 (Chapters 9-12)**
The Week of
March 22, 2009 Unit 5 (Chapters 13-17) Blood Vessels and Blood Circulation. The Lymphatic System and Lymphoid Tissue. Body Defenses, Immunity, and Vaccines.

The week of
March 29, 2009 Unit 6 (Chapters 18-19) Respiration. Digestion

March 30, 20089 **Lab Practical #3 (Chapters 13-17)**

The weeks of **April 5, 12 2009** **Unit 6 (Chapters 20-22) Metabolism, Nutrition, and Body Temperature. Body Fluids. The Urinary System.**

April 6, 2009 **UNIT EXAM # 4 (Chapters 13-17)**

April 13, 2009 **UNIT EXAM #5 (Chapters 18-20)**

The weeks of **April 19, 26 2009**–**Unit 7 (Chapters 23-25) The Male and Female Reproductive Systems. Development and Birth. Heredity and Hereditary Diseases.**

April 29, 2009 **Lab Practical #4 (Chapters 18-23)**

May 4, 2009 **UNIT EXAM# 6 (Chapters 21-25)**

FINAL EXAM: FRIDAY, MAY 8, 11 AM

Course Policies

Grading (credit) Criteria	<p>An Exam will follow the completion of the first two Units and the each of the succeeding five Units, which gives the 6 Unit Exams scores. The mastery of the Laboratory part will be assessed through 4 Lab Practical exams, which adds 4 more scores. Although the assignments in the Study Guide are implemented to help the students' learning and the understanding of the material, a grading scale will be used to evaluate the execution of the exercises in each of the 7 Units.</p>
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	<p>Thus, the total number of scores in this course, including the Final Exam score, will be 18.</p> <p><u>Taking all of the Unit Exams and Lab Practicals is mandatory.</u></p> <p>For the students who take all 6 Unit Exams, the 4 Lab Practicals, and complete the 7 Study Guide Assignments, the 2 lowest Exams scores (excluding the Final), the 1 lowest Lab Practical score, and the 2 lowest Study Guide Exercises scores will be dropped.</p> <p><u>For students who do not take all of the above-mentioned tests, or whose lowest scores are less than 59% no grades will be dropped.</u></p> <p>The Final Grade will be calculated on the following criteria:</p> <p style="padding-left: 40px;">35% of the average of the Unit Exams; 20% of the score of the Final Exam; 20% of the average of the Lab Practicals; 15% of the average of the Study Guide exercises; 10% of the Attendance score.</p> <p>The Final Letter Grades will be assigned in the accordance with the following numerical scale:</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>97-100</td><td>A+</td></tr> <tr><td>92-96</td><td>A</td></tr> <tr><td>89-91</td><td>A-</td></tr> <tr><td>85-88</td><td>B+</td></tr> <tr><td>82-84</td><td>B</td></tr> <tr><td>79-81</td><td>B-</td></tr> <tr><td>75-78</td><td>C+</td></tr> <tr><td>72-74</td><td>C</td></tr> <tr><td>69-71</td><td>C-</td></tr> <tr><td>65-68</td><td>D+</td></tr> <tr><td>62-64</td><td>D</td></tr> <tr><td>59-61</td><td>D-</td></tr> <tr><td>>59</td><td>F</td></tr> </table>	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
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>59	F																										
Make-up Exams	THERE ARE NO RETAKES. MAKE-UP EXAMS WILL BE GIVEN ONLY IN THE CASE OF A DOCUMENTED EXCUSE.																										
Extra Credit	Three bonuses for each correctly answered pop-quizzes that are given periodically during the lectures (the score should be not less than 80%) will be added to the grade of the appropriate unit exam																										
Late Work	The Study Guide Assignments are due on the dates, designated by a special schedule. The Grade for the later presented assignments will be decreased.																										
Special Assignments	n/a																										
Class Attendance	Regular attendance is encouraged to the utmost. 10% of the Final Grade will come from the Grade for the Attendance. Each case of an absence must be discussed with the TA.																										
Classroom Citizenship	CN 1.102 (Lecture); FN 2.202- 2.204 (Lab).																										
Field Trip Policies	n/a																										
Student Conduct and Discipline	The University of Texas System and The University of Texas at Dallas have rules and 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>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>
<p>Academic Integrity</p>	<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>
<p>Email Use</p>	<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>
<p>Withdrawal from Class</p>	<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 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</p>	<p>Procedures for student grievances are found in Title V, Rules on Student Services and</p>

<p>Procedures</p>	<p>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 dean 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 <u>F</u>.</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 style="text-align: center;">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 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.