

UNIVERSITY OF TEXAS AT DALLAS

LECTURE SYLLABUS

Fall 2011

COURSE INFORMATION

Course Number/Section BIOL 3455.001, Lecture
Course Title Human Anatomy & Physiology I
Days & Time Monday 4:00 pm-6:45 pm
Classroom GR 4.428

PROFESSOR CONTACT INFORMATION

Professor..... RUBEN D. RAMIREZ, M.D., PH.D.
E-Mail..... Ruben.Ramirez@UTDallas.edu
Office..... SLC (formerly MSET) 2.406
Phone..... (972) 883-4172
Emergency Contact Info..... FO3.608A, (972) 883-2501
Office Hours..... Monday 1:00pm-3:00pm

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

Corequisite: Human Anatomy & Physiology Lab: BIOL 3455.601, 602, 101 & 102.

| Lab Section | Days & Times | Room |
|-------------|-------------------|---------------------------|
| 601 | M 7:00pm – 9:45pm | SLC (formerly MSET) 2.206 |
| 602 | W 7:00pm – 9:45pm | SLC (formerly MSET) 2.206 |
| 101 | F 4:00pm – 6:45pm | SLC (formerly MSET) 2.206 |
| 102 | W 4:00pm – 6:45pm | SLC (formerly MSET) 2.206 |

COURSE DESCRIPTION

Biology 3455, Human Anatomy and Physiology I, is the first of a two-part series designed as a comprehensive examination of the basic principles of human physiology in the context of a detailed examination of human anatomy. The course is designed to give the pre-professional health care student a detailed fundamental background to enable the student to excel in the anatomical and physiological sciences within the professional school curriculum. This first-half study of the structure-function relationship includes a survey of tissue types, osseous histology and structures, skeletal muscle physiology and anatomy, neurophysiology and anatomy and sensory systems. Emphasis will be placed on the anatomy of these systems as outlined in a model-based laboratory setting.

STUDENT LEARNING OUTCOMES

Upon completion of this course the students should be able to do the following:

1. Understand and be conversant with the anatomy of the human body that includes histology, skeletal system, skeletal muscle, and neuroanatomy;
2. Understand and be conversant with the physiology of the human body that includes histology, skeletal system, skeletal muscle and neurophysiology;
3. Be familiar with the operation of these human organ systems and their interactions within the body;
4. Be familiar with the concepts of integration of operation of these human organ systems within the body.

REQUIRED TEXTBOOK AND MATERIALS

Lecture: Fundamentals of Anatomy and Physiology, 9th edition, by Frederic H. Martini, PhD & Judi L. Nath, PhD.

Full version (for both A&P I and II) ISBN-10: 0321719794

Split version, Volume 1 (for A&P I only) ISBN: 1256107263

Lab: Laboratory Manual for Anatomy & Physiology (main version), fourth edition, by Michael G. Wood.

Main version ISBN-10: 0321572270

GRADING POLICY

1. Grades for lecture will be calculated as follows:

| | | |
|-------------------------|-----|-------------------------|
| Lecture Exams (4) | 60% | } = Final Overall Grade |
| Lab Practical Exams (3) | 30% | |
| Quizzes | 10% | |

2. Grading scale:

| Grade | Score | Grade | Score |
|-------|--------|-------|--------------|
| A+ | 100-97 | C+ | 79-77 |
| A | 96-94 | C | 76-74 |
| A- | 93-90 | C- | 73-70 |
| B+ | 89-87 | D+ | 69-67 |
| B | 86-84 | D | 66-64 |
| B- | 83-80 | D- | 63-60 |
| | | F | 59 and below |

Final grade will be rounded to the nearest integer, e.g., 89.5 = 90; 89.49 = 89. No points or fraction of a point (regardless how small) will be awarded to increase to the next letter grade (NO EXCEPTIONS).

3. Grades are determined based only on performance. Grades are not based on need, effort, or attendance.
4. I do not curve grades (do not ask, beg, cry or plead).

COURSE POLICY

1. **Lecture Exams:** Five (5) lecture exams will be given during the semester, including a cumulative final exam. Graded exams will not be reviewed in class. Exams will be kept on file in the instructor's office and will be available for review for 1 week, starting the next day after the exam grades are posted in eLearning. The student is responsible for scheduling time to review. All issues regarding exam questions and grades must be resolved within this week. After this week, grades will be considered final.
2. Lecture exam dates will be tentatively as follows: Exam I (9/19) = chapters 1, 4, & 5; Exam II (10/17) = chapters 12-14; Exam III (11/14) = chapters 15-17; Exam IV (11/28) = chapters 6, 10 & 11 (pages 335-341); and Final Exam (12/12) = comprehensive.
3. The average of four lecture exams will count 60% of final overall grade (each lecture exam is 15% of final overall grade). The lowest-test score out of the 5 lecture exams (4 semester exams and 1 final exam) will be dropped. Note.- Students are required to take all of the 4 semester exams. Students who skip a semester exam will 1) get a "0" (zero) in the missing exam, 2) have to take the final exam, and 3) average all five exams (4 semester exams and 1 final exam) to compute 60% of the final overall grade.
4. The final exam will be given on Monday 12/12 at 4:00pm. The final exam is comprehensive. The final exam is optional; the final exam can be skipped only if you have taken all 4-semester exams.

5. The structure of the exams will be multiple choice, true/false, and matching questions. There will be 50 questions on all exams. There may be bonus points on all exams. You will need a Scantron (ParSCORE, SCORE SHEET, Form No. F-1712-PAR-L) for all exams.
6. Everything in the textbook is fair game for lecture exams, regardless whether or not it is presented in class. You are responsible to use the information contained in the entire chapters to prepare for exams (regardless it is presented or not in class).
7. When there are conflicts between the information contained in textbook and the material presented in class, material presented by the professor in class will rule over what is written in textbook.
8. Do not miss lecture exams! (If exams are missed you must be able to verify your reason for missing).
9. Make-up lecture exams are usually not given - if there are circumstances that warrant a make-up the instructor will determine the criteria for such an exam at the appropriate time. The structure of make-up exams will be different than that specify in #5 above.
10. Legitimate Reasons to make-up missed lecture exams are as follows: death of an immediate family member and bona fide medical emergencies. These must be presented in writing – no exceptions.
11. **Lecture Quizzes:** There will be a maximum of 10 unannounced quizzes posted for in eLearning. The average of all quizzes minus the lowest two scores will count 10% of final overall grade. Quizzes will be taken in eLearning. You will have 1 week (168 hours) to take the quiz (due date and time will be shown in eLearning). Thus, do not procrastinate, because there will be no make-up for missing quizzes (**absolutely no exceptions**). A missed quiz will receive a zero (0). Read the instructions prior to taking the quiz. Quizzes are timed and only two attempts are allowed (you will get the highest score out of the two attempts).
12. **Lecture Bonus Points:** Bonus points (maximum 6 points) will be made available during all lecture exams. No bonus/extra points for the final overall grade.
13. **Lab Practical Exams:** Three (3) practical lab exams will be given during the semester. The average of all three lab practical exams will count 30% of final overall grade (each lab practical exam is 10% of final overall grade). No make-ups are allowed for practical exams. No lab practical exam will be dropped.
14. Lab practical exam dates will be tentatively as follows: Practical Exam I (9/28, 9/30 & 10/10) = exercises 7-12; 23-31; Practical Exam II (10/26, 10/28 & 11/7) = exercises 13-16; and Practical Exam III (11/30, 12/2 & 12/5) = exercises 17-21.
15. Graded lab practical exams will not be reviewed in class. Lab practical exams will be kept on file in the instructor's office and will be available for review for 1 week, starting the next day after the exam grades are posted in eLearning. The student is responsible for scheduling

time to review. All issues regarding exam questions and grades must be resolved within this week. After this week, grades will be considered final.

16. The structure of the lab practical exams will be filling in the blank and short answers. There will be between 60-100 questions in 32 stations (2-3 questions per station). During the practical exam, one (1) minute will be allowed per station (not per question), and ten (10) additional minutes will be allowed at the end of the practical for you to double check your answers. You will NOT need a Scantron for exams; an answer sheet will be provided. There may be a maximum of 5 bonus points on all practical exams.
17. Any changes to clauses # 14-15 above will be announced by your own lab instructor on the first day of class.
18. Everything in the lab manual is fair game for lab practical exams, regardless whether or not it is presented in class. NOTE.- when there are conflicts between the information contained in textbook and the material presented in class, material presented by the professor in class will rule over what is written in textbook.
- 19. You will need a UTD photo ID to get into lecture and lab exams. If you do not have an UTD photo ID presently, please make arrangements to get one before the first exam (photo ID on Driver Licenses/Cards/Badges are not considered substitute of UTD photo ID – we need your UTD number next to your photo in the same document, not just your photo). No exam or grade will be given to students without UTD photo ID (no exceptions).**
20. In keeping with the spirit of the Privacy Act, grades and/or grade information will not be given to anyone other than the student and will not be discussed over the phone or emails.

STUDENT CONDUCT & 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 printed publication, *A to Z Guide*, which is provided to all registered students each academic year.

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 *Rules and Regulations, Series 50000, Board of Regents, The University of Texas System*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. 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) and online at <http://www.utdallas.edu/judicialaffairs/UTDJudicialAffairs-HOPV.html>

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.

ACADEMIC INTEGRITY

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.

Scholastic Dishonesty, any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, and 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.

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.

EMAIL USE

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.

WITHDRAWAL FROM CLASS

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.

STUDENT GRIEVANCE PROCEDURES

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

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.

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.

INCOMPLETE GRADE POLICY

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**. See web site: <http://www.utdallas.edu/student/catalog/ugcurrent/policies/grades.html>.

DISABILITY SERVICES

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.

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)
disabilityservice@utdallas.edu

If you anticipate issues related to the format or requirements of this course, please meet with the Coordinator of Disability Services. The Coordinator is available to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Services to notify them of your eligibility for reasonable accommodations. Disability Services can then plan how best to coordinate your accommodations.

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.

RELIGIOUS HOLY DAYS

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.

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.

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.

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

TENTATIVE ACADEMIC CALENDAR

| WEEK | DAY | LECTURE TOPICS | CHAPTERS |
|-------------|------------|---|--|
| 1 | 8/22 | ***NO LECTURE CLASS*** ***FALL SEMESTER BEGINS ON 8/24*** | |
| 2 | 8/29 | An Introduction to Anatomy & Physiology The Tissue Level of Organization | Chapter 1 Chapter 4 |
| 3 | 9/5 | ***9/5 LABOR DAY*** | |
| 4 | 9/12 | The Integumentary System | Chapter 5 |
| 5 | 9/19 | Exam I Neural Tissue | Chp 1, 4, & 5 Chapter 12 |
| 6 | 9/26 | Neural Tissue | Chapter 12 |
| 7 | 10/3 | The Brain & Cranial Nerves | Chapter 14 |
| 8 | 10/10 | The Spinal Cord, Spinal Nerves, & Spinal Reflexes | Chapter 13 |
| 9 | 10/17 | Exam II Sensory Pathways & the Somatic Nervous System | Chp 12-14 Chapter 15 |
| 10 | 10/24 | The Autonomic Nervous System & Higher-Order Functions | Chapter 16 |
| 11 | 10/31 | The Special Senses ***11/1 LAST DAY FOR WP/WF – UNDERGRADUATES*** | Chapter 17 |
| 12 | 11/7 | The Special Senses ***11/7 WITHDRAWAL ENDS FOR GRADUATES*** | Chapter 17 |
| 13 | 11/14 | Exam III Osseous Tissue & Bone Structure | Chp 15-17 Chapter 6 |
| 14 | 11/21 | Muscle Tissue The Muscular System ***11/24 – 11/25 THANKSGIVING HOLIDAYS*** | Chapter 10 Chapter 11 (pages 335-341) |
| 15 | 11/28 | Exam IV | Chp 6, 10 & 11 (pp 335-341) |
| 16 | 12/5 | Review ***12/6 LAST DAY OF CLASSES*** | |
| 17 | 12/12 | Exam Final 12/12, 4:00pm | Comprehensive |

NOTE: The professor has the right to change the syllabus at any point during the semester.

Lab Schedule
BIOL 3455 – A&P I – Fall 2011

| DATES | | | TOPIC | LAB EXERCISES |
|--------|--------|--------|------------------------|--------------------------------|
| Mon | Wed | Fri | | |
| Aug 29 | Aug 24 | Aug 26 | Histology, Skin | Ex. 7-12 |
| Sep 12 | Aug 31 | Sep 02 | Nervous System | Ex. 23, 26-27 |
| Sep 19 | Sep 07 | Sep 09 | Spinal Cord & Nerves | Ex. 24 |
| Sep 26 | Sep 14 | Sep 16 | Brain | Ex. 25 |
| Oct 03 | Sep 21 | Sep 23 | Special Senses | Ex. 28-31 |
| Oct 10 | Sep 28 | Sep 30 | Lab Practical 1 | Ex. 7-12; Ex. 23-31 |
| Oct 17 | Oct 05 | Oct 07 | Skeleton – Axial | Ex. 13-14 |
| Oct 24 | Oct 12 | Oct 14 | Skeleton – Upper Limb | Ex. 15-16 |
| Oct 31 | Oct 19 | Oct 21 | Skeleton – Lower Limb | Ex. 15-16 |
| Nov 07 | Oct 26 | Oct 28 | Lab Practical 2 | Ex. 13-16 |
| Nov 14 | Nov 02 | Nov 04 | Muscles – Axial | Ex. 17-19 |
| Nov 21 | Nov 09 | Nov 11 | Muscles – Upper Limb | Ex. 20 |
| Nov 28 | Nov 16 | Nov 18 | Muscles – Lower Limb | Ex. 21 |
| Dec 05 | Nov 30 | Dec 02 | Lab Practical 3 | Ex. 17-21 |