

UNIVERSITY OF TEXAS AT DALLAS

LECTURE/LAB SYLLABUS

Fall 2013

COURSE INFORMATION

Course Number/Section BIOL 3455.001, Lecture
Course Title Human Anatomy & Physiology I
Days & Time Monday 4:00pm – 6:45pm
Classroom FN 2.102

PROFESSOR CONTACT INFORMATION

Professor..... RUBEN D. RAMIREZ, M.D., PH.D.
E-Mail..... Ruben.Ramirez@UTDallas.edu
Office..... SLC 2.406
Phone..... (972) 883-4172
Emergency Contact Info..... FO3.608A, (972) 883-2501
Office Hours..... Monday and Thursday: 1:00pm – 2:00pm

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

Prerequisite: Introduction to Modern Biology II (BIOL2312) or equivalent.

Corequisite: Human Anatomy & Physiology Lab: BIOL 3455.101, 102, 103, 104, or 601.

Dr. Ruben D. Ramirez is the lab instructor for lab sections 103 & 104.
See above for Dr. Ramirez's contact information.

Dr. John C. Kolar is the lab instructor for lab sections 101, 102 & 601.
e-mail: jck014400@utdallas.edu

Lab Section	Days & Times	Room	Professor
103	T 1:00pm – 3:45pm	SLC 2.206	Dr. Ramirez
104	T 4:00pm – 6:45pm	SLC 2.206	Dr. Ramirez
102	W 4:00pm – 6:45pm	SLC 2.206	Dr. Kolar
601	W 7:00pm – 9:45pm	SLC 2.206	Dr. Kolar
101	F 4:00pm – 6:45pm	SLC 2.206	Dr. Kolar

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, UTD Custom Version, Volume 1 (for A&P I only) ISBN: 1256107263

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

Main version ISBN-10: 0321794184

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+	100-96	C+	77-75
A	95-92	C	74-72
A-	91-88	C-	71-68
B+	87-85	D+	67-65
B	84-82	D	64-62
B-	81-78	D-	61-58
		F	57 and below

Final grade will be rounded to the nearest integer, e.g., $89.5 = 90$; $89.4\bar{9} = 89$. No points or fraction of a point (regardless how small) will be awarded to increase to the next letter grade up (**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:** Four (4) lecture exams will be given during the semester. There will be no 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 (if student wants to review after this period of time, contact professor within this week to make appointment), 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. The test classroom and times for all four **lecture exams** will be announced in eLearning during the first week of class.
3. Lecture exam dates will be tentatively as follows: Exam I (9/16) = chapters 1, 4 & 5; Exam II (10/21) = chapters 6, 10/11 (pages 322-331) & 12; Exam III (11/11) = chapters 13, 14 & 15; and Exam IV (12/9) = chapters 16 & 17. There will be no final comprehensive exam.
4. The average of four lecture exams will count 60% of final overall grade (thus, each lecture exam is 15% of final overall grade). No lecture exam will be dropped.
5. The structure of the exams will be multiple choice, true/false, and matching questions. There will be 100 questions on all exams, and the time allowed to complete the exam will be 1 hour and 15 minutes. 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 of 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 of material is presented or not in class).
7. For exam purposes only, when there are conflicts between the information contained in textbook (or any other outside source) and the material presented in class, material presented by the professor in class will rule over what is written in textbook/outside source.
8. Do not miss lecture exams! (If exams are missed you must be able to verify your reason for missing exam).
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, bona fide medical emergencies, and military orders. Proper documentation must be presented in writing before a make-up is granted – **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 two lab practical exams will count 30% of final overall grade (thus, each lab practical exam is 10% of final overall grade). No make-ups are allowed for practical exams. **No one will be allowed to take practical exams in a lab section in which the student is not enrolled (regardless of the reason).** No lab practical exam will be dropped.
14. Lab practical exam dates will be tentatively as follows: Practical Exam I (10/1, 10/2 & 10/4) = exercises 2-16; Practical Exam II (10/29, 10/30 & 11/1) = exercises 17-21; and Practical Exam III (12/3, 12/4 & 12/6) = exercises 23-32.
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 (if student wants to review after this period of time, contact professor within this week to make appointment), 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 (2-4 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 # 15-16 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 or any other source and the material presented in class, material presented by the professor in class will rule over what is written in textbook/outside source.
- 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.

UT DALLAS SYLLABUS POLICIES AND PROCEDURES

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

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

TENTATIVE LECTURE SCHEDULE

<i>WEEK</i>	<i>DAY</i>	<i>LECTURE TOPICS</i>	<i>CHAPTERS</i>
1	8/26	An Introduction to Anatomy & Physiology Tissues: Epithelial Tissue	Chapter 1 Chapter 4
2	9/2	***9/2 LABOR DAY***	NO CLASS
3	9/9	Connective, Muscle, and Nervous Tissues The Integumentary System	Chapter 4 Chapter 5
4	9/16	Exam I Osseous Tissue & Bone Structure	Chps 1, 4 & 5 Chapter 6
5	9/23	Muscle Tissue The Muscular System	Chapter 10 Chapter 11 (pages 322-331)
6	9/30	Neural Tissue	Chapter 12
7	10/7	Neural Tissue	Chapter 12
8	10/14	The Brain	Chapter 14
9	10/21	Exam II The Brain & Cranial Nerves	Chps 6, 10/11 & 12 Chapter 14
10	10/28	The Spinal Cord, Spinal Nerves, & Spinal Reflexes ***10/31 LAST DAY TO WITHDRAW***	Chapter 13
11	11/4	Sensory Pathways & The Somatic Nervous System	Chapter 15
12	11/11	Exam III The Autonomic Nervous System & Higher-Order Functions	Chps 13, 14 & 15 Chapter 16
13	11/18	The Special Senses - Anatomy	Chapter 17
14	11/25	***11/25 – 11/27 FALL BREAK*** ***11/28 – 11/30 THANKSGIVING HOLIDAYS***	NO CLASS
15	12/2	The Special Senses - Physiology	Chapter 17
16	12/9	Exam IV	Chps 16 & 17

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

LAB SCHEDULE

DATES			TOPIC	EXERCISES
Tue	Wed	Fri		
8/27	8/28	8/30	Human Body, Organ Systems, Microscope, The Cell, Cell Transport, & Histology (Epithelial Tissue)	Ex. 2-7
9/3	9/4	9/6	Histology (Connective Tissue, Muscle Tissue, & Nervous Tissue), Skin & Membranes	Ex. 8-12
9/10	9/11	9/13	Axial Skeleton	Ex. 13-14
9/17	9/18	9/20	Appendicular Skeleton – Upper Limb	Ex. 15
9/24	9/25	9/27	Appendicular Skeleton – Lower Limb & Joints	Ex. 15-16
10/1	10/2	10/4	Lab Practical I	Ex. 2-16
10/8	10/9	10/11	Axial Muscles	Ex. 17-19
10/15	10/16	10/18	Appendicular Muscles – Upper Limb	Ex. 20
10/22	10/23	1-25	Appendicular Muscles – Lower Limb	Ex. 21
10/29	10/30	11/1	Lab Practical II	Ex. 17-21
11/5	11/6	11/8	Nervous System, Spinal Cord & Nerves ANS, General Senses	Ex. 23-24, 26-27
11/12	11/13	11/15	Brain	Ex. 25
11/19	11/20	11/22	Special Senses	Ex. 28-32
11/26	11/27	11/29	***11/25 – 11/27 FALL BREAK*** ***11/28 – 11/30 THANKSGIVING HOLIDAYS***	NO LAB
12/3	12/4	12/6	Lab Practical II	Ex. 23-32

* Mondays are for sections 103 & 104; Wednesdays are for sections 102 & 601; Fridays are for section 101.

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