

ANATOMY & PHYSIOLOGY I

BIOL3455.502

M; 5:00 PM - 7:45 PM

SLC 1.102

Instructor Ruben D. Ramirez, M.D., Ph.D.

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Office Hours Mondays & Wednesdays, 2:00pm - 4:00pm

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, physiology, and the interrelationships of these systems as outlined in a model-based laboratory setting.

Student Learning Outcomes:

1. Develop an anatomical vocabulary to effectively describe clinical findings from a physical examination.
2. Recognize the macroscopic and microscopic anatomical structures of human body and explain their physiological roles.
3. Describe the principle of homeostasis and the feedback loops to control physiological systems in the human body.
4. Explain how physiological processes, mechanisms and pathways of the human body influence and maintain human homeostasis.
5. Recognize and explain the interrelationships between organ systems, their anatomical structures, and their physiological functions in the human body.
6. Recognize and explain the pathophysiological mechanisms for homeostatic imbalances.
7. Demonstrate laboratory procedures to examine anatomical structures (in models, dissections, and microscopic slides) and determine their physiological functions.
8. Analyze and interpret data from anatomical and physiological graphs.

Course Pre-Requisite, Co-Requisite, and/or Other Restrictions:

Pre-requisite: Introduction to Modern Biology II (BIOL2312) or equivalent.

Co-requisite: Human Anatomy & Physiology Lab: BIOL 3455.301, 302, 303, 304, 305, 306, & 307.

Lab Instructor Meenakshi Maitra, Ph.D.

Office FO3.617

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Office Hours Monday: 3:00pm-4:00pm; Wednesday 11:30am-12:30pm

Lab Sections:

Lab Section	Days & Times	Room	Professor
301	W, 4:00pm – 6:45pm	SLC 2.206	Dr. Maitra
302	T, 1:00pm – 3:45pm	SLC 2.206	Dr. Ramirez
303	T, 4:00pm – 6:45pm	SLC 2.206	Dr. Ramirez
304	W, 1:00pm – 3:45pm	SLC 2.206	Dr. Maitra
305	Th, 9:00am – 11:45am	SLC 2.206	Dr. Maitra
306	F, 10:00am – 12:45pm	SLC 2.206	Dr. Maitra
307	F, 1:00pm – 3:45pm	SLC 2.206	Dr. Maitra

Required Textbook and Materials:

LECTURE

1. Fundamental of Anatomy & Physiology

- Authors: Frederic H. Martini, Ph.D.; Judi L. Nath, Ph.D. & Edwin F. Bartholomew, M.S.
- 11th edition
- A La Carte (3 hole punch)
- Plus Modified Mastering A&P VP Fundamentals with eText
- Package ISBN: 013477521X

LAB

2. Human Anatomy & Physiology Laboratory Manual

- Authors: Elaine N. Marieb, R.N., Ph.D. & Lori A. Smith, Ph.D.
- 11th edition
- Main version
- Plus Modified Mastering A&P* with eText*
- Package ISBN: 0134156749

* Only the Lab Manual is required.

In UTD bookstores, the lecture textbook and the lab manual are sold EACH as a separate package. In the Lecture package, you will find the lecture textbook (new edition), its access code to its Modified Mastering (textbook-specific) with eText for the textbook. In the Lab package, you will find the lab manual, its access code for its Modified Mastering (book-specific) with eText for the lab manual. You can purchase these packages in UTD bookstores or you can purchase the individual books in other places (not as this package). To purchase from sources other than UTD bookstores, you will need to use different ISBNs, which you can obtain at the Pearson website.

Textbooks and Lab Manuals in Library Reserve Desk:

One copy of the lecture textbook (Martini's) is on circulation desk in the Library. Request these reserved books in Circulation Desk. They are set for 2-hour check out.

Grading Policy:

- Grades for lecture will be calculated as follows:

a. Lecture Exams (4)	60%	} = 100%: Final Overall Grade
b. Lecture Quizzes	5%	
c. Lecture Homework	5%	
d. Lab Practical Exams (3) and Post-Lab Quizzes	30%	

- Grading scale:

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

- Except for the Final Grade, all scores will be rounded to the nearest hundredth. A score ≥ 0.005 will be rounded up; while a score < 0.005 will be rounded down. For example, a homework score of 87.995 will round up to 88.00; while a score of 87.9949 will round down to 87.99.
- Final Grade will be rounded to the nearest integer. A final grade of ≥ 0.5 will be rounded up; while a final grade of < 0.5 will be rounded down. For example, a final grade of 87.5 will round up to 88, thus letter grade "A-"; while a final grade of 87.49 will round down to 87, thus letter grade "B+". No points or fraction of a point (regardless how small) will be awarded to increase to the next letter grade up (No Exceptions).
- Grades are determined based only on performance. Grades are not based on need, effort, or attendance.
- I do not curve grades (do not ask, beg, cry or plead).

Lecture Examinations:

Exam I - M, 1/29 at **SLC 1.102** (Chapters 1, 4 & 5)

Exam II - M, 2/19 at **SLC 1.102** (Chapters 6, 10 & 11)

Exam III - M, 3/26 at **SLC 1.102** (Chapters 12 & 14)

Exam IV - M, 5/07 * at **SLC 1.102** * (Chapters 13, 15, 16 & 17)

*** Potential date/time/room for Exam IV will be determined by Registrar on or after Census Date (1/24/2018).**

Potential date/time/room for a Makeup Exam due to bad weather or other unexpected events are pending.

Course Policy:

Components of the course that will be used to calculate your final overall grade are:

- Lecture Exams,**
- Lecture Quizzes,**
- Lecture Homework, and**
- Lab Practical Exams with Post-Lab Quizzes.**

1. **Lecture Exams:**

- a. Four (4) "regular" lecture exams will be given during the semester. There will be **no Final Exam**. **Schedule can also be found in pages 3, 11 and 14 of this syllabus.**
- b. All four **lecture exams** will be in **SLC 1.102 on Mondays starting at 5:00pm**. I will lecture after exams I, II, and III.
- c. The average of three 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.**
- d. 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**. You will need a Scantron (ParSCORE, SCORE SHEET, Form No. F-1712-PAR-L) for all exams.
 - Questions 1 – 100 will be worth 1 point each
 - All questions will require only **one mark** on the scantron. For example, if there are two or more correct answers in a particular question, you will have options such as option "A and B," "B and C," "All of the above," etc. as the answer to be marked on the scantron. Do not mark all options (i.e., option "A", option "B", and option "A and B"). Because, it will be considered as multiple marks (see below). Rather, just mark one option: for example, if statement in "A" and statement in "B" are the correct answers, then **only** mark option "A and B"
 - **Multiple marks or no mark** will count as **incorrect**, and will receive **no credit as penalty**. There will be no other penalty for marking multiple answers or no answers.
 - Questions 101 – 103 will be bonus questions
 - Maximum number of bonus points will be 6 points per lecture exam. Thus, questions 101 – 103 will be worth 2 points each.
 - Bonus points will be made available during all lecture exams.
 - No bonus/extra points will be awarded to the final overall grade.
 - **The only answers that will count to calculate the score of your exam will be the correct answers that you marked on the scantron sheet, not on the exam sheets. So, make sure you have transferred correctly your answers from the exam to the scantron sheet. Check multiple times that you have transferred correctly your answers from the exam to the scantron sheet. No credit will be given for incorrectly transferred answers, regardless you have marked the correct answer(s) in the exam sheets (No EXCEPTIONS)**
 - **When you finish your exam, you MUST return BOTH the hard copy of the exam and the scantron sheet.**
- e. Everything in the textbook is fair game for lecture exams/quizzes/homework, regardless of whether it is presented in class or not. You are responsible to use all information contained throughout the entire chapters and additional sources (see below) to prepare for exams/quizzes (regardless of whether or not material from chapters is presented in class). Information from additional sources is presented in self-study activities of Mastering A&P (see lecture schedule below), such as PhysioEx 9.1, Interactive Physiology, A&P Flix, or Clinical Case Studies, which will also be fair game for exams/quizzes/homework.
- f. 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, the material presented by the professor in class will rule over what is written in textbook/outside source.
- g. **Do not miss lecture exams! (If exams are missed you must be able to verify your reason for missing exam).**
- h. **Makeup lecture exams: Do not assume you are eligible to a makeup exam. It is up to the instructor to decide if a student is eligible for a make-up exam. Appropriate documentation must be supplied before any makeup exam is granted (please discuss with instructor what is considered an appropriate documentation).**

If there are circumstances that warrant a makeup, the instructor will determine the criteria for such an exam at the appropriate time. **However, be aware that the structure of makeup exams will be different than that specify**

in **#1d above**.

The only 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 makeup exam is granted. And it must be presented before the exam date, on the exam date, or not later than 1 week from the exam date – **no exceptions**

NOTE 1.- Makeup exams WILL NOT be granted for other reasons, such as, trips to weddings, graduation, vacations, visits, etc. Please, do not purchase tickets for trips that would be during exam dates. If you must go to this trip or if it costs excessive amount of money to change trip tickets, reservations, etc., then consider dropping the course from the fall 2017 semester. Please, do not ask for "other" ways.

- i. **Late to Exam:** Exams are scheduled to begin at the same time as lecture (5:00 pm– see above clause #1b). However, I usually take around 10-15 minutes to give instructions regarding the exam and to shuffle the students in the room. So, no one must arrive after I have done everything described above. Yet, someone might still arrive late. Keep in mind that arriving after the exam has already begun is very disruptive to your classmates. Be polite and considerate to your classmates and arrive on time.

For those who arrive after the exam has begun: Consider that it is the student responsibility to allow plenty time to arrive to the school to take exams, in case some awkward event happens, i.e., traffic jams, car accidents, etc. Therefore, neither one of these events will justify a student arriving late to an exam. For those who still arrive late to an exam, the following will be the penalties:

1) if one (1) student finishes the exam, turns it in, and leaves the classroom before you arrive, you will not be allowed to take the exam, your score for the particular exam will be **zero (0)**, and there will be no makeup exam (**NO EXCEPTIONS**).

2) if a student arrives after the exam has begun (and assuming no one has finished the exam and/or turned it in), then the student that has arrived late will be given whatever amount of time is left to finish the exam (i.e., 1 hour and 15 minutes is the normal time allowed to complete regular exams, but if student arrives 15 minutes after the exam has started, then the student will be given only the remaining 1 hour – which is the amount of time left – to complete the exam). (**NO EXCEPTIONS**)

- j. 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 week, 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. **Lecture Quizzes:**

- a. Quizzes will be taken in eLearning.
- b. There will be a **maximum of 10 quizzes** posted in eLearning. **Quiz schedule, period to take the quiz, and the expiration dates (quizzes will disappear from eLearning after the expiration date) are found in page 13 of this syllabus.**
- c. Read the instructions prior to taking the quiz.
- d. Quizzes will be taken in eLearning. You will have **1 week (168 hours)** to take the quiz (due date/time will be shown in eLearning); except for quiz #10 for chapter 16, in which you will have 6 days (144 hours) to take it (see quiz schedule, page 13). Thus, do not procrastinate, because there will be no makeup quiz for missing quizzes (**absolutely no exceptions**). A missed quiz will receive a zero (0).

- e. Quizzes are **timed** and only **two attempts** to take quizzes will be allowed (you will get the highest score out of the two attempts).
- f. The **lowest two (2) quizzes** will be **dropped**.
- g. **The average of all quizzes minus the lowest two scores (2) will count 5% of final overall grade.**

3. Lecture Homework:

- a. Homework will be taken in [Mastering](#). You will find access to [Mastering](#) in [eLearning](#). You will first need to register in [Mastering](#) before you can get access to activities (including homework) in [Mastering](#). To do so, go to [eLearning](#), click on the lecture site for this course (Lecture), in the Course Menu (on the left hand side), click on "[Pearson Mastering A&P \(Homework\)](#)" link, and follow the instructions.
- b. There will be a **maximum of 10 homework assignments**. **Homework schedule, periods to take the homework, and the expiration dates (homework will disappear from [Mastering](#) after the expiration date) are found in page 13 of this syllabus.**
- c. Homework will be comprised of activities and reading questions from textbook or activities found in the **Study Area** of [Mastering](#): PhysioEx 9.1, Interactive Physiology, A&P Flix, or Clinical Case Studies.
- d. Read the instructions prior to taking homework. You can lose points by answering incorrectly. See sample of Grading Policy below, clause #3e.
- e. Check the grading setting on all homework under '**Grading Policy**' to see how homework will be graded. Below is a sample of grading policy: **THIS IS JUST A SAMPLE (SEE SAMPLE WITHIN QUOTATION MARKS).**

"Grading Policy for Homework

Number of answer attempts per question is: 6

You gain credit for:

- Correctly answering a question in a Part
- Correctly answering a question in a Hint
- Not opening a Hint (2% bonus)

You lose credit for:

- Exhausting all attempts or giving up on a question in a Part or Hint
- Incorrectly answering a question in a Part or Hint

Homework/Assignments are not timed. But there is a due date. Therefore, late submissions: receive no credit. There will be no make-ups (**no exceptions**)

Hints are helpful clues or simpler questions that guide you to the answer. Hints are not available for all questions. There is **no penalty** for leaving questions in Hints unanswered.

Grading of Incorrect Answers before the last attempt:

- You lose 100% / (# of options - 1) credit per incorrect answer on multiple-choice and true/false questions.
- You lose 3% credit per incorrect answer on questions that are not multiple-choice or true/false."

- f. Homework will not be timed, but they will have a due date. You will have **1 week (168 hours)** to complete each homework (due date/time will be shown in [Mastering](#) and at the end of this syllabus); except for homework #10 for chapter 16, in which you will have 5 days (120 hours) to take it (see homework schedule, page 13). Thus, do not procrastinate, because there will be no makeup assignment for missing homework (**absolutely no exceptions**). A missed homework will receive a zero (0). Late submission will not be accepted (regardless of the reason).
- g. Only **one attempt** to take homework will be allowed. These homework assignments are like hard copy homework. That is, you don't need to finish in one sit. You can save and continue on the following day, until the due date/time. Once the due date/time has been reached, you won't be allowed to continue working on the homework assignment.
- h. The **lowest (1) homework** will be **dropped**.
- i. **The average of all homework assignments minus the lowest score (1) will count 5% of your lecture grade.**

4. **Lab Practical Exams with Post-Lab Quizzes:**

- a. Three (3) practical lab exams will be given during the semester. **Schedule can also be found in pages 12 and 15 of this syllabus.**
- b. The test classroom for all three **lab practical exams** will be **SLC 2.206**.
- c. **Open lab sessions** will be conducted by TAs. **The dates/times/rooms for these sessions are shown in page 16 of this syllabus.** Open labs are for review activity (no lecture will be given by professors or TAs). These are not for self-studying. You should have studied before going to open lab sessions. Although, we can answer questions.
 - **It will be a first come, first serve.**
 - **No more than 90 students per open lab session can be taken.**
- d. The average of all three lab practical exams will count 30% of final overall grade (thus, each lab practical exam is 10% of final overall grade). No lab practical exam will be dropped.
- e. The structure of the lab practical exams will be **fill-in-the-blank and short-answers questions** (no essay questions). So, you will not need a Scantron for lab practical exams. An answer-sheet will be provided.
 - Make sure you write clearly your answers and your official name in UTD. No credit will be given if answers and/or names cannot be figured out due to illegible handwriting (either printing or cursive styles), despite our best efforts to read your answers and/or names
 - There will be between 60-100 regular questions in 32 stations (2-4 questions per station), plus 5 additional bonus questions in the 33rd station.
 - Regular questions will be worth $(1/n) \times 100$ points each (where n = total number of regular questions in a given practical test)
 - Bonus questions will be worth 1 point each (thus, maximum number of bonus points is 5 points per practical test).
 - No bonus/extra points will be awarded to the final overall grade.
 - During the practical exam, one (1) minute will be allowed per station (not per question), including the bonus station.
 - In addition, ten (10) minutes will be allowed at the end of the practical exam for you to go back to any station and in any order to double check your answers. During these 10-minute period, there are a few rules:
 - i. **No talking will be allowed during these 10 minutes**
 - ii. **Cover your answer-sheet always (students not covering their answer sheets will be penalized by 100% reduction of their practical score, the exam will be taken, and the student will be dismissed)**
 - iii. Only one student per station will be permitted

- iv. However, since other students need to see the stations too, do not stay too long in a station. Be considerate to your classmates
 - Because each professor conducts practical exams slightly different, then each lab professor will give you other specific instructions prior to entering the lab room to take a practical exam.
- f. In addition to the Bonus questions, there will be **Post-Lab Quizzes** for each lab session.
- There will be 11 Post-Lab Quizzes. **Post-Lab Quiz schedule, period to take the quiz, and the expiration dates (quizzes will disappear from eLearning after the expiration date) are found in page 14.**
 - Each Post-Lab Quiz will be worth 1 point
 - All points earned from Post-Lab Quizzes will be **added** to the pertaining Lab Practical Exam score
 - A **maximum of 5 points** for Post-Lab Quizzes will be awarded
 - Post-Lab Quizzes will be taken in **eLearning**
 - All Post-Lab Quizzes will be posted in eLearning **from Thursday to Sunday**
 - Post-Lab Quizzes will consist of **10 questions** which will be worded the same as in the real Lab Practical Exams
 - Post-Lab Quizzes will be **timed** = 5 minutes per 10 questions (just like in real Lab Practical Exams)
 - You will have **two (2) attempt** to do the Post-Lab Quizzes, and the **highest score** will be taken
 - There will be **no makeup Post-Lab Quiz** regardless of the reasons (**NO EXCEPTIONS**)
- g. Everything in the lab manual is fair game for practical lab exams, regardless whether or not it is presented in class. You are responsible to use all of the information contained throughout the entire chapters to prepare for lab practical exams (regardless of whether or not material from chapters is presented in class). Information presented in 1) activities of Mastering A&P, such as Histology Atlas and PAL 3.0, 2) activities in ADI, such as EEG, muscle physiology, and Reflex/Reaction Time, and 3) physiological activities, such as stretch reflexes, autonomic reflexes, two-point threshold test, blind spot test, visual acuity test, astigmatism test, depth perception, ophthalmoscopy examination, Weber test, Rinne test, Romberg test, otoscopic examination, etc. will also be fair game for practical lab exams. **So, it is highly recommended that you participate in all of these activities.**
- h. For exam purposes only, when there are conflicts between the information contained in the lab manual (or any other outside source) and the material presented in class, the material presented by the professor in class will rule over what is written in lab manual/outside source.
- i. **No one will be allowed to take practical exams in a lab section in which the student is not enrolled (regardless of the reason) without prior authorization by me and the professor involved. Granting permission to take the practical lab exam in a different section will depend on whether there is space in the lab room for this student or not. If lab section is full, no student will be authorized to take the practical exam and overload this lab section.**
- j. **Do not miss Lab practical exams! (If exams are missed you must be able to verify your reason for missing the lab practical exam).**
- k. **Makeup lab practical exams are usually NOT given, due to the logistics involved in setting up a practical lab exam. Do not assume you are eligible to a makeup lab practical exam. It is up to the instructor to decide if a student is eligible for a make-up exam. Appropriate documentation must be supplied before any makeup exam is granted (please discuss with instructor what is considered an appropriate documentation).**

If there are circumstances that warrant a makeup practical exam, the instructor of your lab section will determine **1) whether or not a makeup practical exam is logistically possible; and 2) the criteria for such an exam at the appropriate time.**

If the only option is to take a makeup practical exam in a different lab section, it could be allowed **only if there is room for the student to take the makeup practical exam (students enrolled in the alternative lab section have**

priority, and no one can take their seats in lab practical exams).

The only Legitimate Reasons to make up missed lab practical 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 makeup practical exam is granted. And due to the logistics to prepare a practical exam, request and documentation must be presented before the exam date – **no exceptions**

NOTE 2.- Makeup exams will not be granted for other reasons, such as, trips to weddings, graduation, vacations, visits, etc. Please, do not purchase tickets for trips that would be during exam dates. If you must go to this trip or if it costs excessive amount of money to change trip tickets, reservations, etc., then consider dropping the course from the fall 2017 semester. Please, do not ask for "other" ways.

- I. **Late to Lab Practical Exam:** Exams are scheduled to begin at the specified time set by the lab professor. This is usually at the same time as the lab section is scheduled to begin. However, sometimes extra time might be needed for several reasons, i.e., to setup the practical exam, to explain students about the mechanics of the practical exam, to position the students in their start stations in the lab room, etc. Lab professors will indicate at what time all students must be present outside of the lab room and ready to be called out for the exam. **So, no one has to arrive after the professor has done all of the above and the lab practical exam has begun.** Yet, someone might still arrive late. Keep in mind that arriving after the exam has actually begun is very disruptive to your classmates (and to the mechanics of a lab practical exam). Be polite and considerate to your classmates and arrive on time.

For those who arrive after the exam has begun: It is the student responsibility to allow plenty time to arrive to the school to take exams, in case some awkward event happens, i.e., traffic jams, car accidents, etc.

Therefore, neither one of these vents will justify a student arriving late to an exam. For those who still arrive late to an exam, the following penalties will apply:

- 1) No one will be allowed to take the exam, once the lab door is closed and the lab practical exam has begun (please, do not knock the lab door as this is disruptive to the flow of the practical exam).
 - 2) The student that arrives after the door has been closed and the exam has begun will get a **zero (0)** on the particular lab practical exam. There will be no makeup practical exam **(No Exceptions)**
- m. 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.

Practice/Reinforcement Activities (NOT FOR CREDIT)

i. **Additional Lecture Activities:**

- There will be no points awarded in these lecture activities. These lecture activities are tools to practice and/or reinforce concepts presented in class. These lecture activities are optional; however, concepts reviewed in these lecture activities may be used to create questions for exams/quizzes/homework (see clause #1e above).
- Lecture activities will consist on activities found in the **Study Area** of Mastering: PhysioEx 9.1, Interactive Physiology (IP), A&P Flix, or Clinical Case Studies.

ii. **Additional Lab Activities:**

- There will be no points awarded in these lab activities. These lab activities are tools to practice and/or reinforce concepts presented in the lab. These activities are optional; however, concepts reviewed in these lab activities may be used to create questions for lab practical exams (see clause #4g above).

- Lab activities will consist on activities found in the **Study Area** of Mastering: Histology Atlas and PAL 3.0.

NOTE 3.- You will need a UTD photo ID (UTD Comet Card) to get into both 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). We are aware of the expense to attend college, but having an UTD Comet Card is a requirement set by the university for all UTD students.

NOTE 4.- The professor has the right to change the syllabus at any point during the semester.

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.

LECTURE SCHEDULE:

WEEK	DAY	TOPIC	REQUIRED READING	ASSIGNMENTS
1	1/08	An Introduction to Anatomy & Physiology Tissues	Chapter 1 Chapter 4	Qz Chp 01 & HW Chp 01
2	1/15	***1/15 MLK HOLIDAY***	No CLASS	Qz Chp 04 (Fri, 1/19)
3	1/22	The Integumentary System	Chapter 5	Qz Chp 05 & HW Chp 05
4	1/29	Exam I (SLC 1.102, 5:00 pm) Osseous Tissue & Bone Structure	Chps 1, 4 & 5 Chapter 6	Case Chp 06
5	2/05	Osseous Tissue & Bone Structure Muscle Tissue	Chapter 6 Chapter 10 (10-1 to 10-8)	Qz Chp 06 & HW Chp 06
6	2/12	Muscle Tissue The Muscular System	Chapter 10 (10-1 to 10-8) Chapter 11 (11-1 to 11-4)	PhysioEx 9.1, Exercise 2 Qz Chp 10/11 & HW Chp 10/11
7	2/19	Exam II (SLC 1.102, 5:00 pm) Neural Tissue	Chps 6, 10 & 11 Chapter 12	PhysioEx 9.1, Exercise 3 IP: NS I and II
8	2/26	Neural Tissue	Chapter 12	Qz Chp 12 & HW Chp 12
9	3/05	The Brain	Chapter 14	Case Chp 14
10	3/12	***3/12 – 3/18 SPRING BREAK***	No CLASS	
11	3/19	The Brain & Cranial Nerves	Chapter 14	Qz Chp 14 & HW Chp 14
12	3/26**	Exam III (SLC 1.102, 5:00 pm) The Spinal Cord	Chps 12 & 14 Chapter 13	Case Chp 13
13	4/02	Spinal Nerves & Spinal Reflexes	Chapter 13	Qz Chp 13 & HW Chp 13
14	4/09	Sensory Pathways & SNS: Motor Pathways The Special Senses – Anatomy	Chapter 15 Chapter 17	HW Chp 15
15	4/16	The Special Senses –Physiology	Chapter 17	Qz Chp 17 & HW Chp 17
16	4/23	Autonomic Nervous System	Chapter 16	Qz Chp 16 & HW Chp 16
17	4/30	***4/29 LAST DAY OF CLASSES***	No CLASS	
18	5/07*	Tentative Exam IV (See Below *)	Chps 13, 15, 16 & 17	Date/Time/Room: TBD

* Date, time and room for exam IV is to be determined by Registrar after Census Date. It may be any day 5/01 -5/10.

NOTE 5.- These descriptions and timelines in lecture schedule are subject to change at the discretion of the Professor.

MONDAY, 3/26 LAST DAY TO WITHDRAW

LAB SCHEDULE:

				TOPIC	REQUIRED READING
<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>		
Jan 09	Jan 10	Jan 11	Jan 12	Language of Anatomy, Organ Systems & Histology (Epithelial Tissue)	Ex. 1-2, 6
Jan 16	Jan 17	Jan 18	Jan 19	Histology (Connective Tissue, Muscle Tissue & Nervous Tissue)	Ex. 6
Jan 23	Jan 24	Jan 25	Jan 26	Membranes & Integumentary System Lab Practical Review	Ex. 7
Jan 30	Jan 31	Feb 01	Feb 02	Lab Practical I	Ex. 1-2, 6-7
Feb 06	Feb 07	Feb 08	Feb 09	Overview of the Skeleton & Axial Skeleton	Ex. 8 & 9
Feb 13	Feb 14	Feb 15	Feb 16	Appendicular Skeleton & Articulations/Movements	Ex. 10 & 11
Feb 20	Feb 21	Feb 22	Feb 23	Skeletal Muscle Fiber & Axial Muscles	Ex. 12 & 13
Feb 27	Feb 28	Mar 01	Mar 02	Appendicular Muscles Lab Practical Review	Ex. 13
Mar 06	Mar 07	Mar 08	Mar 09	Lab Practical II	Ex. 8-13
Mar 13	Mar 14	Mar 15	Mar 16	***3/12 – 3/18 SPRING BREAK***	No Class
Mar 20	Mar 21	Mar 22	Mar 23	Nervous Tissue, Brain & Cranial Nerves	Ex. 15 & 17
Mar 27	Mar 28	Mar 29	Mar 30	EEG	Ex. 18
Apr 03	Apr 04	Apr 05	Apr 06	Spinal Cord & Spinal Nerves	Ex. 19
Apr 10	Apr 11	Apr 12	Apr 13	Reflexes, General Sensation & Special Senses (Vision)	Ex. 21-24
Apr 17	Apr 18	Apr 19	Apr 20	Special Senses (Hearing, Equilibrium, Olfaction & Taste) & ANS Lab Practical Review	Ex. 20, 25 & 26
Apr 24	Apr 25	Apr 26	Apr 27	Lab Practical III	Ex. 15, 17-26

Tuesday column is for section 302 & 302; Wednesday column is for sections 301 & 304; Thursday column is for section 305; and Friday column is for sections 306 & 307. ****MONDAY, 3/26 LAST DAY TO WITHDRAW****

NOTE 6.- These descriptions and timelines in lab schedule are subject to change at the discretion of the Professor.

NOTE 7.- Lab Policies and Procedures: No eating or drinking of any kind is allowed in the lab. An instructor has the right to ask a student that brings food or drinks to leave the lab (regardless the student is consuming them or not).

Lab Examinations:

Practical I: 1/30 – 2/02 at SLC 2.206 (Exercises 1 – 2, 6 – 7)

Practical II: 3/06 – 3/09 at SLC 2.206 (Exercises 8 – 13)

Practical III: 4/24 – 4/27 at SLC 2.206 (Exercises 15, 17 – 26)

LECTURE QUIZZES IN eLEARNING				LECTURE HOMEWORK IN MASTERING			
#	Chapter	Posted Period	Expiration	#	Chapter	Posted Period	Expiration
1	01	01/08, 7:00pm – 01/16, 11:59pm	01/16, 11:59:00pm	1	01	01/09, 7:00pm – 01/17, 11:59pm	01/17, 11:59:00pm
2	04*	01/19, 7:00pm – 01/26, 11:59pm	01/26, 11:59:00pm	2	05	01/23, 7:00pm – 01/30, 11:59pm	01/30, 11:59:00pm
3	05	01/22, 7:00pm – 01/29, 11:59pm	01/29, 11:59:00pm	3	06	02/06, 7:00pm – 02/13, 11:59pm	02/13, 11:59:00pm
4	06	02/05, 7:00pm – 02/12, 11:59pm	02/12, 11:59:00pm	4	10/11	02/13, 7:00pm – 02/20, 11:59pm	02/20, 11:59:00pm
5	10/11	02/12, 7:00pm – 02/19, 11:59pm	02/19, 11:59:00pm	5	12	02/27, 7:00pm – 03/06, 11:59pm	03/06, 11:59:00pm
6	12	02/26, 7:00pm – 03/05, 11:59pm	03/05, 11:59:00pm	6	14	03/20, 7:00pm – 03/27, 11:59pm	03/27, 11:59:00pm
7	14	03/19, 7:00pm – 03/26, 11:59pm	03/26, 11:59:00pm	7	13	04/03, 7:00pm – 04/10, 11:59pm	04/10, 11:59:00pm
8	13	04/02, 7:00pm – 04/09, 11:59pm	04/09, 11:59:00pm	8	15	04/10, 7:00pm – 04/17, 11:59pm	04/17, 11:59:00pm
9	17	04/16, 7:00pm – 04/23, 11:59pm	04/23, 11:59:00pm	9	17	04/17, 7:00pm – 04/24, 11:59pm	04/24, 11:59:00pm
10	16**	04/23, 7:00pm – 04/29, 11:59pm	04/29, 11:59:00pm	10	16**	04/24, 7:00pm – 04/29, 11:59pm	04/29, 11:59:00pm

* Quiz #2 for Chapter 4 is a quiz about histology and it is found in Lab Schedule, page 12 above.

** In all quizzes and homework assignments, you have 7 days to take them (168 hours). Except for Quiz #10 and Homework assignment #10, both for Chapter 16. You will have 6 days (144 hours) to take quiz #10 for Chapter 16 and 5 days (120 hours) to take homework assignment #10 for Chapter 16. Because the last day of class is Sunday, 4/29/2018. Therefore, quiz #10 for Chapter 16 and homework assignment #10 for Chapter 16 will expired on Sunday, 4/29/2018, at 11:59:00 pm. Be aware that Quiz #10 and Homework assignment #10 are NOT optional.

NOTE 8.- The professor has the right to change these dates/times of these activities at any point during the semester. If any major changes are made, I will update promptly in Announcements in eLearning.

ALL expiration dates are hard deadlines and WILL NOT be extended. It is the student's responsibility to keep track of the due dates and times for all these assignments, i.e., quizzes and homework.

POST-LAB QUIZZES IN eLEARNING			
#	Experiments	Posted Period	Expiration
1	1 & 2	01/12, 7:00pm – 01/16, 11:59pm	01/16, 11:59:00pm
2	6	01/19, 7:00pm – 01/22, 11:59pm	01/22, 11:59:00pm
3	6 & 7	01/26, 7:00pm – 01/29, 11:59pm	01/29, 11:59:00pm
4	8 & 9	02/09, 7:00pm – 02/12, 11:59pm	02/12, 11:59:00pm
5	10	02/16, 7:00pm – 02/19, 11:59pm	02/19, 11:59:00pm
6	10 & 11	02/16, 7:00pm – 02/19, 11:59pm	02/19, 11:59:00pm
7	12 & 13	03/02, 7:00pm – 03/05, 11:59pm	03/05, 11:59:00pm
8	15 & 17	03/23, 7:00pm – 03/26, 11:59pm	03/26, 11:59:00pm
9	17 & 19	04/06, 7:00pm – 04/09, 11:59pm	04/09, 11:59:00pm
10	20-24	04/13, 7:00pm – 04/16, 11:59pm	04/16, 11:59:00pm
11	25 & 26	04/20, 7:00pm – 04/23, 11:59pm	04/23, 11:59:00pm

NOTE 9.- The lab professor has the right to change these dates/times/covered experiments of these quizzes at any point during the semester. If any major changes are made, we will update promptly in Announcements in eLearning.

ALL expiration dates are hard deadlines and will not be extended. It is the student's responsibility to keep track of the due dates and times for all these assignments, i.e., quizzes and homework.

BIOL3455 Lecture Exams for Section 502

	Day	Date	Time	Room	
Lecture Exam I	Monday	01/29/18	5:00pm - 6:30pm	SLC 1.102	
Lecture Exam II	Monday	02/19/18	5:00pm - 6:30pm	SLC 1.102	
Lecture Exam III	Monday	03/26/18	5:00pm - 6:30pm	SLC 1.102	
Lecture Exam IV	Monday	05/07/18	5:00pm - 6:30pm	SLC 1.102	* Tentative Date

NOTE 10.- Exams last only 1 hour and 15 minutes. I usually take the first 10-15 minutes to shuffle students and distribute exams. And I will lecture after exams I, II and III.

BIOL3455 Lab Practical Exams

	Day	Date	Time	Lab Section	Room
Lab Practical I	Tuesday	01/30/18	1:00pm - 3:45pm	302	SLC 2.206
			4:00pm - 6:45pm	303	
	Wednesday	01/31/18	1:00pm - 3:45pm	304	
			4:00pm - 6:45pm	301	
	Thursday	02/01/18	9:00am - 11:45pm	305	
	Friday	02/02/18	10:00am - 12:45pm	306	
			1:00pm - 3:45pm	307	
Lab Practical II	Tuesday	03/06/18	1:00pm - 3:45pm	302	SLC 2.206
			4:00pm - 6:45pm	303	
	Wednesday	03/07/18	1:00pm - 3:45pm	304	
			4:00pm - 6:45pm	301	
	Thursday	03/08/18	9:00am - 11:45pm	305	
	Friday	03/09/18	10:00am - 12:45pm	306	
			1:00pm - 3:45pm	307	
Lab Practical III	Tuesday	04/24/18	1:00pm - 3:45pm	302	SLC 2.206
			4:00pm - 6:45pm	303	
	Wednesday	04/25/18	1:00pm - 3:45pm	304	
			4:00pm - 6:45pm	301	
	Thursday	04/26/18	9:00am - 11:45pm	305	
	Friday	04/27/18	10:00am - 12:45pm	306	
			1:00pm - 3:45pm	307	

* NOTE 11.- The **actual start time** for Lab Practical Exams will be determined and announced by your Lab Professor.

Open Lab Sessions for BIOL3455 Lab Practical Exams

	Day	Date	Time	Room	Lab Section
Open Lab for Practical I	Friday	01/26/18	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	01/27/18	2:00pm - 4:00pm		
	Sunday	01/28/18	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		
Open Lab for Practical II	Friday	03/02/18	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	03/03/18	2:00pm - 4:00pm		
	Sunday	03/04/18	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		
Open Lab for Practical III	Friday	04/20/18	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	04/21/18	2:00pm - 4:00pm		
	Sunday	04/22/18	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		

NOTE 12.- The professor has the right to change these dates/times of these activities at any point during the semester. If any major changes are made, I will update promptly in Announcements in eLearning.