

# ANATOMY & PHYSIOLOGY I

**BIOL3455.501**

**M; 5:00 PM - 7:45 PM**

**SLC 1.102**

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

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**Office Hours** Tuesdays & Wednesdays, 1:00pm - 3:00pm

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## 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 3455.1U1, 1U2 & 1U3.

**Lab Instructor** Meenakshi Maitra, Ph.D.

**Office** FO3.617

**E-mail** [Meenakshi.Maitra@utdallas.edu](mailto:Meenakshi.Maitra@utdallas.edu)

**Office Hours** Monday: 11.30am-1.30pm; Friday 11.30am-1.30pm

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## Lab Sections:

Lab Section	Days & Times	Room	Professor
302	W, 4:00pm – 6:45pm	SLC 2.206	Dr. Maitra
303	T, 1:00pm – 3:45pm	SLC 2.206	Dr. Maitra
304	T, 4:00pm – 6:45pm	SLC 2.206	Dr. Ramirez
305	T, 10:00am – 12:45pm	SLC 2.206	Dr. Maitra
306	W, 1:00pm – 3:45pm	SLC 2.206	Dr. Maitra
307	W, 10:00am – 12:45pm	SLC 2.206	Dr. Maitra
801	W, 7:00pm – 9:45pm	SLC 2.206	Dr. Maitra
802	T, 7:00pm – 9:45pm	SLC 2.206	Dr. Ramirez

## Required Textbook and Materials:

## LECTURE

## 1. Fundamental of Anatomy &amp; Physiology

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

## LAB

## 2. Human Anatomy &amp; Physiology Laboratory Manual

- Authors: Elaine N. Marieb, R.N., Ph.D. & Lori A. Smith, Ph.D.
- 11<sup>th</sup> 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:

Two copies of the lecture textbook (Martini's) are on reserve in the Library. Request these reserved books in Circulation Desk by referring to call numbers #TBA and #TBA. They are set for 2-hour check out.

## Grading Policy:

1. 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%		

2. 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

3. Except for the Final Grade, all scores will be rounded to the nearest hundredth. A score  $\geq 0.005$  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.
4. Final Grade will be rounded to the nearest integer. A final grade of  $\geq 0.5$  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).
5. Grades are determined based only on performance. Grades are not based on need, effort, or attendance.
6. I do not curve grades (do not ask, beg, cry or plead).

## Lecture Examinations:

Exam I - M, 9/18 at **SLC 1.102** (Chapters 1, 4 & 5)

Exam II - M, 10/09 at **SLC 1.102** (Chapters 6, 10 & 11)

Exam III - M, 11/06 at **SLC 1.102** (Chapters 12, 13 & 14)

Exam IV - M, 12/11 at **SLC 1.102** (Chapters 15, 16 & 17)

**\* Potential date/time/room for Exam IV will be depending on Registrar.**

**Potential date/time/room for a Makeup Exam due to bad weather or other unexpected event is pending.**

## Course Policy:

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

1. **Lecture Exams,**
2. **Lecture Quizzes,**
3. **Lecture Homework, and**
4. **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 or not it is presented in class. You are responsible to use all of the 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 has to arrive after I have done all of the above. Yet, someone might still arrive late. Keep in mind that arriving after the exam has actually 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 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. **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). 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). 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 33<sup>rd</sup> 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. Needless to say, **no talking will be allowed during these 10 minutes**
    - ii. **Cover your answer-sheet** at all times (**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 particular 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 ADL, 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 or not there is space in the lab room for this student. 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	8/21	An Introduction to Anatomy & Physiology	Chapter 1	Qz Chp 01 & HW Chp 01
2	8/28	Tissues	Chapter 4	
3	9/04	<b>***9/04 LABOR DAY***</b>	<b>NO CLASS</b>	Qz Chp 04 (9/06)
4	9/11	The Integumentary System	Chapter 5	Qz Chp 05 & HW Chp 05
5	9/18	<b>Exam I (SLC 1.102)</b> Osseous Tissue & Bone Structure	<b>Chps 1, 4 &amp; 5</b> Chapter 6	Case Chp 06
6	9/25	Muscle Tissue	Chapter 10 (10-1 to 10-7)	Qz Chp 06 & HW Chp 06
7	10/02	Muscle Tissue The Muscular System	Chapter 10 (10-1 to 10-7) Chapter 11 (11-1 to 11-4)	PhysioEx 9.1, Exercise 2 Qz Chp 10/11 & HW Chp 10/11
8	10/09	<b>Exam II (SLC 1.102)</b> Neural Tissue	<b>Chps 6, 10 &amp; 11</b> Chapter 12	PhysioEx 9.1, Exercise 3 IP: NS I and II
9	10/16	Neural Tissue The Brain	Chapter 12 Chapter 14	Qz Chp 12 & HW Chp 12 Case Chp 14
10	10/23	The Brain & Cranial Nerves The Spinal Cord, Spinal Nerves, & Spinal Reflexes	Chapter 14 Chapter 13	Qz Chp 14 & HW Chp 14 Case Chp 13
11	10/30	The Spinal Cord, Spinal Nerves, & Spinal Reflexes Sensory Pathways & The Somatic Nervous System	Chapter 13 Chapter 15	Qz Chp 13 & HW Chp 13 HW Chp 15
12	11/06	<b>Exam III (SLC 1.102)</b> Autonomic Nervous System	<b>Chps 12, 13 &amp; 14</b> Chapter 16	
13	11/13	Autonomic Nervous System	Chapter 16	Qz Chp 16 & HW Chp 16
14	11/20	<b>***11/20 – 11/22 FALL BREAK***</b> <b>***11/23 – 11/25 THANKSGIVING HOLIDAYS***</b>	<b>NO CLASS</b>	
15	11/27	The Special Senses – Anatomy	Chapter 17	Qz Chp 17 & HW Chp 17
16	12/04	The Special Senses – Physiology	Chapter 17	
17	12/11*	<b>Exam IV (Date, Time and Room TBA)</b>	<b>Chps 15, 16 &amp; 17</b>	<b>Date/Time: TBD</b>

\* Date, time and room for exam IV is to be determined by Registrar after Census Date. It may be any day 12/08-12/14.

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

**\*\*THURSDAY, 10/26 LAST DAY TO WITHDRAW\*\***

## LAB SCHEDULE:

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

Tuesday column is for section 303, 304, 305 & 802; Wednesday column is for sections 302, 306, 307 & 801.

**\*\*THURSDAY, 10/26 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 – 9/12 & 9/13 at SLC 2.206 (Exercises 1 – 2, 6 – 7)

Practical II – 10/17 & 10/18 at SLC 2.206 (Exercises 8 – 13)

Practical III – 12/05 & 12/06 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	08/21, 7:00pm – 08/28, 11:59pm	08/28, 11:59:00pm	1	01	08/22, 7:00pm – 08/29, 11:59pm	08/29, 11:59:00pm
2	04*	09/05, 7:00pm – 09/12, 11:59pm	09/12, 11:59:00pm	2	05	09/12, 7:00pm – 09/19, 11:59pm	09/19, 11:59:00pm
3	05	09/11, 7:00pm – 09/18, 11:59pm	09/18, 11:59:00pm	3	06	09/26, 7:00pm – 10/03, 11:59pm	10/03, 11:59:00pm
4	06	09/25, 7:00pm – 10/02, 11:59pm	10/02, 11:59:00pm	4	10/11	10/03, 7:00pm – 10/10, 11:59pm	10/10, 11:59:00pm
5	10/11	10/02, 7:00pm – 10/09, 11:59pm	10/09, 11:59:00pm	5	12	10/17, 7:00pm – 10/24, 11:59pm	10/24, 11:59:00pm
6	12	10/16, 7:00pm – 10/23, 11:59pm	10/23, 11:59:00pm	6	14	10/24, 7:00pm – 10/31, 11:59pm	10/31, 11:59:00pm
7	14	10/23, 7:00pm – 10/30, 11:59pm	10/30, 11:59:00pm	7	13	10/31, 7:00pm – 11/07, 11:59pm	11/07, 11:59:00pm
8	13	10/30, 7:00pm – 11/06, 11:59pm	11/06, 11:59:00pm	8	15	10/31, 7:00pm – 11/07, 11:59pm	11/07, 11:59:00pm
9	16	11/13, 7:00pm – 11/27, 11:59pm	11/27, 11:59:00pm	9	16	11/14, 7:00pm – 11/28, 11:59pm	11/28, 11:59:00pm
10	17**	11/27, 7:00pm – 12/06, 11:59pm	12/06, 11:59:00pm	10	17**	11/28, 7:00pm – 12/06, 11:59pm	12/06, 11:59:00pm

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

\*\* Quiz #10 and Homework assignment #10, both for Chapter 17 are optional. If you decide to take them, you will have until the official last day of class (12/06/2017; see Academic Calendar), which gives you 9 days for quiz chapter 17 and 8 days for homework chapter 17. In addition, whether or not you decide to take the optional quiz and/or homework assignment, the lowest two quizzes will still be dropped and/or the lowest one homework assignment will still be dropped.

For example:

For quizzes, if you decide to skip the optional quiz #10, and take only the 9 obligatory quizzes (from quiz #1 to quiz #9), the lowest two WILL BE dropped (i.e., 9 taken quizzes – lowest 2 quizzes = top 7 quiz scores to calculate quiz average). Instead, if you decide to take the 9 obligatory quizzes (from quiz #1 to quiz #9) plus the optional quiz #10, the lowest two WILL STILL BE dropped (i.e., 10 taken quizzes – lowest 2 quizzes = top 8 quiz scores to calculate quiz average). Either way, there will be only two quizzes (the lowest two) that will be dropped.

For homework assignments, if you decide to skip the optional homework #10, and take only the 9 obligatory homework assignments (from homework #1 to homework #9), the lowest one WILL BE dropped (i.e., 9 taken homework – lowest 1 homework = top 8 homework scores to calculate homework average). Instead, if you decide to take the 9 obligatory homework assignments (from homework #1 to homework #9) plus the optional homework #10, the lowest one WILL STILL BE dropped (i.e., 10 taken homework – lowest 1 homework = top 9 homework scores to calculate homework average). Either way, there will be only one homework assignment (the lowest one) that will be dropped.

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	08/24, 7:00pm – 08/27, 11:59pm	08/27, 11:59:00pm
2	6	08/31, 7:00pm – 09/03, 11:59pm	09/03, 11:59:00pm
3	6 & 7	09/07, 7:00pm – 09/10, 11:59pm	09/10, 11:59:00pm
4	8 & 9	09/21, 7:00pm – 09/24, 11:59pm	09/24, 11:59:00pm
5	10	09/28, 7:00pm – 10/01, 11:59pm	10/01, 11:59:00pm
6	10 & 11	09/28, 7:00pm – 10/01, 11:59pm	10/01, 11:59:00pm
7	12 & 13	10/12, 7:00pm – 10/15, 11:59pm	10/15, 11:59:00pm
8	15 & 17	10/26, 7:00pm – 10/29, 11:59pm	10/29, 11:59:00pm
9	17 & 19	11/09, 7:00pm – 11/12, 11:59pm	11/12, 11:59:00pm
10	20-24	11/16, 7:00pm – 11/19, 11:59pm	11/19, 11:59:00pm
11	25 & 26	11/30, 7:00pm – 12/03, 11:59pm	12/03, 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 501

	Day	Date	Time	Room	
Lecture Exam I	Monday	09/18/17	5:00pm - 6:30pm	SLC 1.102	
Lecture Exam II	Monday	10/09/17	5:00pm - 6:30pm	SLC 1.102	
Lecture Exam III	Monday	11/06/17	5:00pm - 6:30pm	SLC 1.102	
Lecture Exam IV	Monday	12/11/17	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	Room	Lab Section
Lab Practical I	Tuesday	09/12/17	10:00am - 12:45pm	SLC 2.206	305
			1:00pm - 3:45pm		303
			4:00pm - 6:45pm		304
			7:00pm - 9:45pm		802
	Wednesday	09/13/17	10:00am - 12:45pm		307
			1:00pm - 3:45pm		306
			4:00pm - 6:45pm		302
			7:00pm - 9:45pm		801
Lab Practical II	Tuesday	10/17/17	10:00am - 12:45pm	SLC 2.206	305
			1:00pm - 3:45pm		303
			4:00pm - 6:45pm		304
			7:00pm - 9:45pm		802
	Wednesday	10/18/17	10:00am - 12:45pm		307
			1:00pm - 3:45pm		306
			4:00pm - 6:45pm		302
			7:00pm - 9:45pm		801
Lab Practical III	Tuesday	12/05/17	10:00am - 12:45pm	SLC 2.206	305
			1:00pm - 3:45pm		303
			4:00pm - 6:45pm		304
			7:00pm - 9:45pm		802
	Wednesday	12/06/17	10:00am - 12:45pm		307
			1:00pm - 3:45pm		306
			4:00pm - 6:45pm		302
			7:00pm - 9:45pm		801

### Open Lab Sessions for BIOL3455 Lab Practical Exams

	Day	Date	Time	Room	Lab Section
Open Lab for Practical I	Friday	09/08/17	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	09/09/17	2:00pm - 4:00pm		
	Sunday	09/10/17	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		
Open Lab for Practical II	Friday	10/13/17	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	10/14/17	2:00pm - 4:00pm		
	Sunday	10/15/17	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		
Open Lab for Practical III	Friday	12/01/17	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	12/02/17	2:00pm - 4:00pm		
	Sunday	12/03/17	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		

NOTE 11.- 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.