

# ANATOMY & PHYSIOLOGY I

<b>BIOL3455.001</b>	<b>M; 4:00 PM - 6:45 PM</b>	<b>FN 2.102</b>
<b>BIOL3455.002</b>	<b>M; 7:00 PM - 9:45 PM</b>	<b>FN 2.104</b>

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**Office Hours** Tuesday & Wednesday, 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 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, 801 & 802.

Lab Instructors	E-mail	Sections
N. Marlo Ballard, M.S.T.	<a href="mailto:nmb160030@utdallas.edu">nmb160030@utdallas.edu</a>	301, 302, 304, 305 & 801
Ruben D. Ramirez, M.D., Ph.D.	<a href="mailto:Ruben.Ramirez@UTDallas.edu">Ruben.Ramirez@UTDallas.edu</a>	303 & 802

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

Required Textbook and Materials:

## LECTURE

## LAB

### 1. Fundamental of Anatomy & Physiology

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

### 2. Human Anatomy & 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\* and PhysioEX 9.1\*

\* However, Lab Manual's Modified Mastering A&P, eText, and PhysioEX 9.1 are recommended material (not required)

The lecture textbook and the lab manual are sold in UTD bookstores as a package. In the package, you will find both books (lecture textbook and lab manual), two access codes for Modified Mastering (one for textbook's Mastering and one for lab manual's Mastering), and eText. To keep these materials at low price and obtain some discount, we had to make them into a package. The ISBNs for this bundle are VP ISBN-10: 0134584929 or VP ISBN-13: 9780134584928. 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 #13494 and #13495. 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  $\geq 0.005$  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.
- 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).
- 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, 2/06 at **FN 2.102** for section 001 and at **FN 2.104** for section 002 (Chapters 1, 4 & 5)

Exam II - M, 2/27 at **FN 2.102** for section 001 and at **FN 2.104** for section 002 (Chapters 6, 10 & 11)

Exam III - M, 4/03 at **FN 2.102** for section 001 and at **FN 2.104** for section 002 (Chapters 12, 13 & 14)

Exam IV - M, 5/08\* at **FN 2.102** for section 001 and at **FN 2.104** for section 002 (Chapters 15, 16 & 17)

**\* Potential date for Exam IV is depending on Registrar.**

**Potential date 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:

- 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**.
- b. All four **lecture exams** will be in **FN 2.102 for section 001 on Mondays starting at 4:00pm**, and in **FN 2.104 for section 002 on Mondays starting at 7:00pm (see page 15)**. I will lecture after exams I, II, and III.
- c. **There will be Chapter Review Sessions for each exam (see dates/times/rooms on page 15). Attendance is recommended, but optional.**
- d. 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.**
- e. 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 mark option "A and B" **only**
  - 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.**
- f. 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.
- g. 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.
- h. **No one will be allowed to take lecture exams in a lecture section in which the student is not enrolled (regardless of the reason) without prior authorization by me (roster will be taken, and if a student is found that is not officially enrolled in the particular section, the student will be asked to leave, and of course, without the exam and scantron sheet). Granting permission to take the lecture exam in a different section will depend on whether or not there is space in the lecture room for this student. If lecture section is full, no student will be**

authorized to take the lecture exam and overload this lecture section.

- i. **Do not miss lecture exams! (If exams are missed you must be able to verify your reason for missing exam).**
- j. **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 #1e 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 spring 2017 semester. Please, do not ask for "other" ways.**

- k. **Late to Exam:** Exams are scheduled to begin at the same time as lecture (4:00pm or 7:00pm depending on your lecture section – see above clause #1b). However, I usually take around 10-15 minutes to give a speech about different issues regarding the exam and to shuffle around 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:** 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 will apply:

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)**

- l. 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 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.
- 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:

### "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 homework minus the lowest score 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 page 16.**
- b. The test classroom and times 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 17 of this syllabus.** Open labs are for review and a self-studying activity (no lecture will be given by professors or TAs). Although, we can answer questions.
  - **It will be a first come, first serve.**
  - **No more than 60 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 your answers and your official name in UTD clearly. 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.
  - Regular questions will be worth 1/n 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 enter 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 Friday to Monday**
  - 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, ophthalmoscopic 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 behind 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 spring 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 #4k 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 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 ID 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	1/09	An Introduction to Anatomy & Physiology	Chapter 1	Qz Chp 01 & HW Chp 01
2	1/16	***1/16 MLK HOLIDAY***	No Class	
3	1/23	Tissues	Chapter 4	Qz Chp 04
4	1/30	The Integumentary System	Chapter 5	Qz Chp 05 & HW Chp 05
5	2/06	<b>Exam I (FN 2.102/FN 2.104)</b> Osseous Tissue & Bone Structure	<b>Chps 1, 4 &amp; 5</b> Chapter 6	Case Chp 06 Qz Chp 06 & HW Chp 06
6	2/13	Muscle Tissue	Chapter 10 (sections 10-1 to 10-7)	
7	2/20	The Muscular System	Chapter 11 (sections 11-1 to 11-4)	PhysioEx 9.1, Ex. 2 Qz Chp 10/11 & HW Chp 10/11
8	2/27	<b>Exam II (FN 2.102/FN 2.104)</b> Neural Tissue	<b>Chps 6, 10 &amp; 11</b> Chapter 12	
9	3/06	Neural Tissue The Brain	Chapter 12 Chapter 14	PhysioEx 9.1, Ex. 3 IP: NS I and II Qz Chp 12 & HW Chp 12
10	3/13	***3/13 – 3/18 SPRING BREAK***	No Class	
11	3/20	The Brain and Cranial Nerves	Chapter 14	Case Chp 14 Qz Chp 14 & HW Chp 14
12	3/27**	The Spinal Cord, Spinal Nerves, & Spinal Reflexes	Chapter 13	Case Chp 13 Qz Chp 13 & HW Chp 13
13	4/03	<b>Exam III (FN 2.102/FN 2.104)</b> Sensory Pathways & The Somatic Nervous System	<b>Chps 12, 13 &amp; 14</b> Chapter 15	HW Chp 15
14	4/10	Autonomic Nervous System & Higher-Order Functions	Chapter 16	Qz Chp 16 & HW Chp 16
15	4/17	The Special Senses – Anatomy	Chapter 17	
16	4/24	The Special Senses – Physiology	Chapter 17	Qz Chp 17 & HW Chp 17
17	5/01	***4/30 LAST DAY OF CLASSES***	No Class	
18	5/08*	<b>Exam IV (FN 2.102/FN 2.104)</b>	<b>Chps 15, 16 &amp; 17</b>	<b>PENDING DATE (* SEE PAGE 3)</b>

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

\*\*THURSDAY, 3/27 LAST DAY TO WITHDRAW\*\*

## LAB SCHEDULE:

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

Tuesday column is for section 302, 303, 304 & 802; Wednesday column is for sections 301 & 801.

**\*\*MONDAY, 3/27 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 – 1/31 & 2/01 at SLC 2.206 (Exercises 1 – 2, 6 – 7)

Practical II – 3/07 & 3/08 at SLC 2.206 (Exercises 8 – 13)

Practical III – 4/25 & 4/26 at SLC 2.206 (Exercises 15, 17, 19 – 26)

LECTURE QUIZZES IN eLEARNING				LECTURE HOMEWORK IN MASTERING			
#	Chapter	Posted Period	Expiration	#	Chapter	Posted Period	Expiration
1	01	01/09, 7:00pm – 01/17, 11:59pm	01/17, 11:59:00pm	1	01	01/10, 7:00pm – 01/18, 11:59pm	01/18, 11:59:00pm
2	04	01/23, 7:00pm – 01/30, 11:59pm	01/30, 11:59:00pm	2	05	01/31, 7:00pm – 02/07, 11:59pm	02/07, 11:59:00pm
3	05	01/30, 7:00pm – 02/06, 11:59pm	02/06, 11:59:00pm	3	06	02/14, 7:00pm – 02/21, 11:59pm	02/21, 11:59:00pm
4	06	02/13, 7:00pm – 02/20, 11:59pm	02/20, 11:59:00pm	4	10/11	02/21, 7:00pm – 02/28, 11:59pm	02/28, 11:59:00pm
5	10/11	02/20, 7:00pm – 02/27, 11:59pm	02/27, 11:59:00pm	5	12	03/07, 7:00pm – 03/14, 11:59pm	03/14, 11:59:00pm
6	12	03/06, 7:00pm – 03/13, 11:59pm	03/13, 11:59:00pm	6	14	03/21, 7:00pm – 03/28, 11:59pm	03/28, 11:59:00pm
7	14	03/20, 7:00pm – 03/27, 11:59pm	03/27, 11:59:00pm	7	13	03/28, 7:00pm – 04/04, 11:59pm	04/04, 11:59:00pm
8	13	03/27, 7:00pm – 04/03, 11:59pm	04/03, 11:59:00pm	8	15	04/04, 7:00pm – 04/11, 11:59pm	04/11, 11:59:00pm
9	16	04/10, 7:00pm – 04/17, 11:59pm	04/17, 11:59:00pm	9	16	04/11, 7:00pm – 04/18, 11:59pm	04/18, 11:59:00pm
10	17	04/24, 7:00pm – 05/01, 11:59pm	05/01, 11:59:00pm	10	17	04/25, 7:00pm – 05/02, 11:59pm	05/02, 11:59:00pm

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, 6	01/13, 7:00pm – 01/16, 11:59pm	01/16, 11:59:00pm
2	6	01/20, 7:00pm – 01/23, 11:59pm	01/23, 11:59:00pm
3	6 & 7	01/27, 7:00pm – 01/30, 11:59pm	01/30, 11:59:00pm
4	8 & 9	02/10, 7:00pm – 02/13, 11:59pm	02/13, 11:59:00pm
5	10 & 11	02/17, 7:00pm – 02/20, 11:59pm	02/20, 11:59:00pm
6	12 & 13	02/24, 7:00pm – 02/27, 11:59pm	02/27, 11:59:00pm
7	13	03/03, 7:00pm – 03/06, 11:59pm	03/06, 11:59:00pm
8	15 & 17	03/24, 7:00pm – 03/27, 11:59pm	03/27, 11:59:00pm
9	17 & 19	03/31, 7:00pm – 04/03, 11:59pm	04/03, 11:59:00pm
10	20-24	04/14, 7:00pm – 04/17, 11:59pm	04/17, 11:59:00pm
11	25 & 26	04/21, 7:00pm – 04/24, 11:59pm	04/24, 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 001**

	Day	Date	Time	Room	
Lecture Exam I	Monday	02/06/17	4:00pm - 6:45pm	FN 2.102	
Lecture Exam II	Monday	02/27/17	4:00pm - 6:45pm	FN 2.102	
Lecture Exam III	Monday	04/03/17	4:00pm - 6:45pm	FN 2.102	
Lecture Exam IV	Monday	05/08/17	4:00pm - 6:45pm	FN 2.102	* Tentative Date

**BIOL3455 Lecture Exams for Section 002**

	Day	Date	Time	Room	
Lecture Exam I	Monday	02/06/17	7:00pm - 9:45pm	FN 2.104	
Lecture Exam II	Monday	02/27/17	7:00pm - 9:45pm	FN 2.104	
Lecture Exam III	Monday	04/03/17	7:00pm - 9:45pm	FN 2.104	
Lecture Exam IV	Monday	05/08/17	7:00pm - 9:45pm	FN 2.104	* Tentative Date

**Chapter Review Sessions for BIOL3455 Lecture Exams**

	Day	Date	Time	Room	
Review for Exam I	Saturday	02/04/17	2:00pm - 4:00pm	Pending	
Review for Exam II	Saturday	02/25/17	2:00pm - 3:30pm	Pending	
Review for Exam III	Saturday	04/01/17	2:00pm - 4:00pm	Pending	
Review for Exam IV	Saturday	05/06/17	2:00pm - 4:45pm	Pending	* Tentative Date

\* Potential date for Exam IV is depending on Registrar.

## BIOL3455 Lab Practical Exams

	Day	Date	Time	Room	Lab Section
Lab Practical I	Tuesday	01/31/17	10:00am - 12:45pm	SLC 2.206	304
			1:00pm - 3:45pm		302
			4:00pm - 6:45pm		303
			7:00pm - 9:45pm		802
	Wednesday	02/01/17	10:00am - 12:45pm		305
			4:00pm - 6:45pm		301
			7:00pm - 9:45pm		801
Lab Practical II	Tuesday	03/07/17	10:00am - 12:45pm	SLC 2.206	304
			1:00pm - 3:45pm		302
			4:00pm - 6:45pm		303
			7:00pm - 9:45pm		802
	Wednesday	03/08/17	10:00am - 12:45pm		305
			4:00pm - 6:45pm		301
			7:00pm - 9:45pm		801
Lab Practical III	Tuesday	04/25/17	10:00am - 12:45pm	SLC 2.206	304
			1:00pm - 3:45pm		302
			4:00pm - 6:45pm		303
			7:00pm - 9:45pm		802
	Wednesday	04/26/17	10:00am - 12:45pm		305
			4:00pm - 6:45pm		301
			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	01/27/17	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	01/28/17	2:00pm - 4:00pm		
	Sunday	01/29/17	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		
Open Lab for Practical II	Friday	03/03/17	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	03/04/17	2:00pm - 4:00pm		
	Sunday	03/05/17	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		
Open Lab for Practical III	Friday	04/21/17	7:00pm - 9:00pm	SLC 2.206, and tentatively other rooms	All
	Saturday	04/22/17	2:00pm - 4:00pm		
	Sunday	04/23/17	10:00am - 12:00pm		
			1:00pm - 3:00pm		
			3:00pm - 5:00pm		

NOTE 10.- 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.