

# ANATOMY & PHYSIOLOGY I

**BIOL3455.001**

**M; 4:00 PM - 6:45 PM**

**FN 2.102**

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

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**Office Hours** Monday & Thursday, 1:00pm - 3:00pm

## 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 3455.101, 102, 103, 104, or 601.

Lab Instructors	E-mail	Sections
Ruben D. Ramirez, M.D., Ph.D.	<a href="mailto:Ruben.Ramirez@UTDallas.edu">Ruben.Ramirez@UTDallas.edu</a>	103 & 104
John Kolar, Ph.D.	<a href="mailto:jck014400@utdallas.edu">jck014400@utdallas.edu</a>	101, 102 & 601

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

## Required Textbook and Materials:

### LECTURE

### LAB

- Fundamental of Anatomy & Physiology**
  - Authors: Frederic H. Martini, Ph.D., Judi L. Nath, Ph.D. & Edwin F. Bartholomew, M.S.
  - 10th edition,
  - A La Carte (3 hole punch)
  - Plus **Modified** Mastering A&P VP Fundamentals with eText
  - VP ISBN-10: 013397426X
  - VP ISBN-13: 9780133974263
- Response Card RF LCD**
  - By Turning Technologies
  - ISBN: 9781934931400

- Human Anatomy & Physiology Laboratory Manual**
  - Authors: Elaine N. Marieb, R.N., Ph.D., Susan J. Mitchell, Ph.D., & Lori A. Smith, Ph.D.
  - 10th edition
  - Main version
  - Plus **Modified** Mastering A&P with eText and PhysioEX 9.1.
  - ISBN-10: 0133983811
  - ISBN-13: 9780133983814

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.

Two copies of the lab manual (Marieb's) are on reserve in the Library. Request these reserved books in Circulation Desk by referring to call numbers #13496 and #13497. They are set for 2-hour check out.

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

#### Grading Policy:

1. Grades for lecture will be calculated as follows:
 

a. Lecture Exams (4)	60%	}	= Final Overall Grade
b. Lecture Quizzes	5%		
c. Lecture Homework	5%		
d. Lab Practical Exams (3)	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. Final grade will be rounded to the nearest integer, e.g., a final grade of 87.5 will round up to 88.00, thus letter grade "A-"; while a final grade of 87.49 will round down to 87.00, 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**).

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

#### Lecture Examinations:

Exam I - M, 9/21 at **HH 2.402** (Chapters 1, 4 & 5)

Exam II - M, 10/12 at **HH 2.402** (Chapters 6, 10/11 & 12)

Exam III - M, 11/9 at **HH 2.402** (Chapters 13, 14 & 15)

Exam IV - M, 12/7 at **HH 2.402** (Chapters 16 & 17)

Makeup Exam due to bad weather, or other unexpected event - Pending date/room

#### 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,**
4. **Lab Practical Exams, and**
5. **In-Class Participation**

#### 1. **Lecture Exams:**

- a. Four (4) lecture exams will be given during the semester. There will be no final exam.
- b. The test classroom and times for all four **lecture exams** will be **HH 2.402 starting at 4:00pm**. I will lecture after exams I, II, and III.
- c. **Chapter Review sessions** will be conducted by TAs and me. The dates/times/room for these sessions are pending. Review sessions might consist on reviewing topics by lecturing and/or asking questions to students. So, it is recommended to come prepared to the review sessions. Review sessions will be just reviewing material... not lecturing again. And, material covered in review sessions is not prepared from the exams either.
- d. The average of four lecture exams will count 60% of final overall grade (thus, each lecture exam is 15% of final overall grade). No lecture exam will be dropped.
- 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.
- f. Bonus points (maximum 6 points) will be made available during all lecture exams. No bonus/extra points will be awarded to the final overall grade.
- g. 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.

- h. 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.
- 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** are usually not given - 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.**
- k. 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 – **no exceptions**, and before the date of the regular exam.

NOTE:- 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., consider dropping the course from the spring semester. Please, do not ask for "other" ways.**

- l. **Late to Exam:** Exams are scheduled to begin at the same time as lecture (4:00pm). However, I usually take around 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 arrive late. Keep in mind that arriving after the exam has actually begun is very disruptive to your classmates. Be polite to your classmates and arrive on time.

**For those who arrive after the exam has begun:** 1) if one (1) student finishes the exam and leaves the classroom before you arrive, you will not be allowed to take the exam, and your score for the particular exam will be zero (0) and there will be no makeup exam (No exceptions). 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. 2) if a student arrives after the exam has begun (and assuming no one has finished the exam and turned it in), then the student will be given whatever amount of time is left to finish the exam (i.e., 1 hour and 15 minutes are allowed to finish the exam, 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).

- m. 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 date (quizzes will disappear from [eLearning](#) after the expiration date) are found at the end 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 at the end of the 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.
- 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:**

- a. Three (3) practical lab exams will be given during the semester.
- 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 for these sessions are shown at the end 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.
- 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 filling in the blank and short answers. There will be between 60-100 questions in 32 stations (2-4 questions per station). During the practical exam, one (1) minute will be allowed per station (not per question), and ten (10) additional minutes will be allowed at the end of the practical for you to double check your answers. You will not need a Scantron for exams. An answer sheet will be provided.
- f. Bonus points (maximum 5 points) will be made available during all lab practical exams. No bonus/extra points will be awarded to the final overall grade.
- 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 activities of Mastering A&P, such as Histology Atlas and PAL 3.0, will also be fair game for practical lab exams.
- 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. If there are circumstances that warrant a makeup practical exam, the instructor of your lab section will determine the criteria for such an exam at the appropriate time.
- l. 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 test is granted – **no exceptions**, and before the date of the regular lab practical exam.

NOTE.- 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., consider dropping the course from the spring semester. Please, do not ask for "other" ways.**

- m. **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 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 to your classmates and arrive on time.

**For those who arrive after the exam has begun:** 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). The student will get a zero (0) on the particular lab practical exam. 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. However, if there are circumstances that warrant an alternative to take the practical exam, i.e., taking the practical exam in a different lab section, etc., the lab instructor will determine whether or not an alternative practical exam date/time is possible. If the only option is to take the practical exam in a lab section of the other lab professor, it could be allowed only if there is room for the student to take the practical exam (students enrolled in the lab section of the other professor have priority, and no one can take their seats in lab practical exams). Keep in mind that if you take the practical exam in the other professor lab section, the practical exam won't be adjusted to you. That is, Dr. Kolar and I might emphasize on different aspects. So, the practical exam might focus on aspects that your section didn't focus on, and no change will be done to accommodate what your section focused on.

- n. 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.
- o. Any changes to clause # 4n above will be announced by your own lab instructor on the first day of lab class.

## 5. In-Class Participation:

- a. There will be in-class activities to evaluate class participation during lecture (not to document attendance).
- b. These in-class activities will consist of questions that may cover material presented in any of the following: PhysioEx 9.1 exercises, Interactive Physiology activities, A&P Flix animations, Clinical Case Studies (all of these three are found in the **Study Area** of [MasteringAandP.com](#)) and including textbook/PowerPoint class notes/additional information presented in class.
- c. You will need **clickers** to answer the questions in lecture. **Each question answered correctly will be worth a total of 1.0 point: you will earn the first 0.5 points/question just by answering the questions; and you will earn the second 0.5 points/question by answering correctly the questions.** Students who don't answer the questions, or whose clicker fails to communicate with my clicker receiver will get zero (0) points. So, make sure you have the correct clicker type and version, a clicker that works, and to have fresh batteries.

Clicker Support On-Campus (eLearning Team): [elearning@utdallas.edu](mailto:elearning@utdallas.edu)

Clicker Support – Turning Technologies: [Support@turningtechnologies.com](mailto:Support@turningtechnologies.com) , 866-746-3015, from 8:00am to 9:00pm EST, Monday through Friday.

- d. A maximum of 5.0 points total per exam will be awarded from these questions. Points earned from these in-class activities will be awarded to the corresponding lecture exam (not to the final overall grade).
- e. These are in-class activities, thus students missing a class will receive no credit. There will be no makeups for these in-class activities (**no exceptions**).

### Practice/Reinforcement Activities

#### 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 #1g 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.- Supplemental Instruction (SI) is offered for this course.** SI sessions are free group study opportunities, scheduled two or three times per week. Sessions are facilitated by an SI Leader, who has recently taken the course and received a high final grade. Attendance is voluntary. For information about the days, times, and locations for SI sessions, refer to [www.utdallas.edu/studentsuccess/leaders/si.html](http://www.utdallas.edu/studentsuccess/leaders/si.html).

Enrollment into SI sessions is a recommended, encourage activity, and optional. Thus, no extra-points will be awarded for attending SI sessions.

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.

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	8/24	An Introduction to Anatomy & Physiology	Chapter 1	HW Chp 01
2	8/31	Tissues	Chapter 4	
3	9/7	***9/7 LABOR DAY***	No CLASS	
4	9/14	The Integumentary System	Chapter 5	HW Chp 05
5	9/21	<b>Exam I (HH 2.402)</b> Osseous Tissue & Bone Structure	<b>Chps 1, 4 &amp; 5</b> Chapter 6	Case Chp 06 HW Chp 06
6	9/28	Muscle Tissue The Muscular System	Chapter 10 (sections 10-1 to 10-7) Chapter 11 (sections 11-1 to 11-4)	PhysioEx 9.1, Exercise 2 HW Chp 10/11
7	10/5	Neural Tissue	Chapter 12	PhysioEx 9.1, Exercise 3 IP: NS I and II HW Chp 12
8	10/12	<b>Exam II (FN 2.102)</b> The Brain	<b>Chps 6, 10/11 &amp; 12</b> Chapter 14	
9	10/19	The Brain and Cranial Nerves	Chapter 14	Case Chp 14 HW Chp 14
10	10/26	The Spinal Cord, Spinal Nerves, & Spinal Reflexes	Chapter 13	Case Chp 13 HW Chp 13
11	11/2	Sensory Pathways & The Somatic Nervous System	Chapter 15	HW Chp 15
12	11/9	<b>Exam III (HH 2.402)</b> Autonomic Nervous System & Higher-Order Functions	<b>Chps 13, 14 &amp; 15</b> Chapter 16	HW Chp 16
13	11/16	The Special Senses – Anatomy	Chapter 17	
14	11/23	***11/23 – 11/25 FALL BREAK*** ***11/26 – 11/28 THANKSGIVING HOLIDAYS***	No CLASS	
15	11/30	The Special Senses – Physiology	Chapter 17	HW Chp 17
16	12/7	<b>Exam IV (HH 2.402)</b>	<b>Chps 16 &amp; 17</b>	

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

\*\*\*10/29 LAST DAY TO WITHDRAW\*\*\*

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

## Lab Schedule:

Dates			Topic	Required Reading
<i>Tue</i>	<i>Wed</i>	<i>Fri</i>		
<b>Aug 25</b>	<b>Aug 26</b>	<b>Aug 28</b>	Language of Anatomy, Organ Systems, Microscope, The Cell, Cell Transport, & Histology (Epithelial Tissue)	Ex. 1-6
<b>Sept 1</b>	<b>Sept 2</b>	<b>Sept 4</b>	Histology (Connective Tissue, Muscle Tissue, & Nervous Tissue), & Skin	Ex. 6 & 7
<b>Sept 8</b>	<b>Sept 9</b>	<b>Sept 11</b>	Axial Skeleton	Ex. 8 & 9
<b>Sept 15</b>	<b>Sept 16</b>	<b>Sept 18</b>	Appendicular Skeleton – Upper Limb	Ex. 10
<b>Sept 22</b>	<b>Sept 23</b>	<b>Sept 25</b>	Appendicular Skeleton – Lower Limb	Ex. 10
<b>Sept 29</b>	<b>Sept 30</b>	<b>Oct 2</b>	<b>Lab Practical I</b>	<b>Ex. 1-10</b>
<b>Oct 6</b>	<b>Oct 7</b>	<b>Oct 9</b>	Articulations & Axial Muscles	Ex. 11-13
<b>Oct 13</b>	<b>Oct 14</b>	<b>Oct 16</b>	Appendicular Muscles – Upper Limb	Ex. 13
<b>Oct 20</b>	<b>Oct 21</b>	<b>Oct 23</b>	Appendicular Muscles – Lower Limb	Ex. 13
<b>Oct 27</b>	<b>Oct 28</b>	<b>Oct 30</b>	<b>Lab Practical II</b>	<b>Ex. 11-13</b>
<b>Nov 3</b>	<b>Nov 4</b>	<b>Nov 6</b>	Nervous System	Ex. 15
			Brain & Cranial Nerves	Ex. 17
<b>Nov 10</b>	<b>Nov 11</b>	<b>Nov 13</b>	Spinal Cord, Spinal Nerves, Reflexes & ANS	Ex. 19-21
<b>Nov 17</b>	<b>Nov 18</b>	<b>Nov 20</b>	General & Special Senses	Ex. 22-26
<b>Nov 24</b>	<b>Nov 25</b>	<b>Nov 27</b>	***11/23 – 11/25 FALL BREAK*** ***11/26 – 11/28 THANKSGIVING HOLIDAYS***	<b>No Class</b>
<b>Dec 1</b>	<b>Dec 2</b>	<b>Dec 4</b>	<b>Lab Practical III</b>	<b>Ex. 15, 17, 19-26</b>

Tuesday column is for section 103 & 104; Wednesday column is for sections 102 & 601; Friday column is for section 101.

**\*\* Last day to withdraw is 10/29**

**NOTE:** The professor has the right to change the lab schedule at any point during the semester.

## Lab Examinations:

Practical I – 9/29, 9/30 & 10/2 at SLC 2.206 (Exercises 1 – 10)

Practical II – 10/27, 10/28 & 10/30 at SLC 2.206 (Exercises 11 – 13)

Practical III – 12/1, 12/2 & 12/4 at SLC 2.206 (Exercises 15, 17, 19 – 26)

QUIZZES IN eLEARNING				HOMEWORK IN MASTERING			
#	Chapter	Posted Period	Expiration	#	Chapter	Posted Period	Expiration
1	01	08/24, 7:00pm – 08/31, 11:59pm	08/31, 11:59:00pm	1	01	08/25, 7:00pm – 09/1, 11:59pm	09/1, 11:59:00pm
2	04	09/7, 7:00pm – 09/14, 11:59pm	09/14, 11:59:00pm	2	05	09/15, 7:00pm – 09/22, 11:59pm	09/22, 11:59:00pm
3	05	09/14, 7:00pm – 09/21, 11:59pm	09/21, 11:59:00pm	3	06	09/22, 7:00pm – 09/29, 11:59pm	09/29, 11:59:00pm
4	06	09/21, 7:00pm – 09/28, 11:59pm	09/28, 11:59:00pm	4	10/11	09/29, 7:00pm – 10/6, 11:59pm	10/6, 11:59:00pm
5	10/11	09/28, 7:00pm – 10/5, 11:59pm	10/5, 11:59:00pm	5	12	10/6, 7:00pm – 10/13, 11:59pm	10/13, 11:59:00pm
6	12	10/5, 7:00pm – 10/12, 11:59pm	10/12, 11:59:00pm	6	14	10/20, 7:00pm – 10/27, 11:59pm	10/27, 11:59:00pm
7	14	10/19, 7:00pm – 10/26, 11:59pm	10/26, 11:59:00pm	7	13	10/27, 7:00pm – 11/3, 11:59pm	11/3, 11:59:00pm
8	13	10/26, 7:00pm – 11/2, 11:59pm	11/2, 11:59:00pm	8	15	11/3, 7:00pm – 11/10, 11:59pm	11/10, 11:59:00pm
9	16	11/9, 7:00pm – 11/16, 11:59pm	11/16, 11:59:00pm	9	16	11/10, 7:00pm – 11/17, 11:59pm	11/17, 11:59:00pm
10	17	11/30, 7:00pm – 12/7, 11:59pm	12/7, 11:59:00pm	10	17	12/1, 7:00pm – 12/8, 11:59pm	12/8, 11:59:00pm

NOTE: The professor has the right to change these dates/times 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.

### Open Lab Sessions for BIOL3455 A&P I Lab

	Day	Date	Time	Room
Open Lab for Practical I	Sunday	09/27/15	10:00am - 12:00pm	SLC 2.206
	Sunday	09/27/15	1:00pm - 3:00pm	SLC 2.206
Open Lab for Practical II	Sunday	10/25/15	10:00am - 12:00pm	SLC 2.206
	Sunday	10/25/15	1:00pm - 3:00pm	SLC 2.206
Open Lab for Practical III	Sunday	11/29/15	10:00am - 12:00pm	SLC 2.206
	Sunday	11/29/15	1:00pm - 3:00pm	SLC 2.206

### Chapter Review Sessions for BIOL3455 A&P I Lecture

	Day	Date	Time	Room
Review for Exam I	Sunday	09/20/15	1:00pm - 3:00pm	Pending
Review for Exam II	Sunday	10/11/15	1:00pm - 3:00pm	Pending
Review for Exam III	Sunday	11/08/15	1:00pm - 3:00pm	Pending
Review for Exam IV	Sunday	12/06/15	1:00pm - 3:00pm	Pending

### Lecture Exams for BIOL3455 A&P I Lecture

	Day	Date	Time	Room
Exam I	Monday	09/21/15	4:00pm - 6:45pm	HH 2.402
Exam II	Monday	10/12/15	4:00pm - 6:45pm	HH 2.402
Exam III	Monday	11/09/15	4:00pm - 6:45pm	HH 2.402
Exam IV	Monday	12/07/15	4:00pm - 6:45pm	HH 2.402