

*BIOLOGY 2404L*  
**HUMAN ANATOMY & PHYSIOLOGY LAB**  
1 CREDIT HOUR  
SPRING 2018

**Section:** All  
**Time:** All

**Bldg:** LDB  
**Room:** 109

**Course Coordinator:**

Dr. Jordan Clark,  
Anatomy and Physiology, Applied Microbiology Course Coordinator  
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Office hours: TBA

**Head TA:**

Nicholas Holovacs,  
Biology Graduate Student  
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Office hours: TBA

**LAB SAFETY:**

- No food or drink in lab – put it away in your bag
- No cell phone use
- During dissections:
  - Clean your bench at the beginning and end of each lab period with the disinfectant spray and paper towels provided.
  - Wash your hands before leaving lab
  - Do NOT wear lab gloves outside of the lab
  - No applying makeup
  - If you want to wear a lab coat, over-sized shirt, or apron, you must provide it.
  - Animal material from dissections will be either put away appropriately for later use or discarded in trash bags.
  - Gloves are ALWAYS discarded in Hazardous Material bags (red bags)
  - All dissection tools should be **washed and dried** and put away in the appropriate place. I provide the class with only one dissection kit per group, so you might want to buy a dissection kit of your own. They are available at most bookstores or online.
  - You are welcome to store your dissection kits and/or lab coats in the lab.

## REQUIRED COURSE MATERIAL

### Lab Manual:

- Martin, Terry: Laboratory Manual for Human Anatomy and Physiology  
Publisher: McGraw-Hill Sciences  
ISBN: 9781309099063

**Returning Students:** If you took 2403 at SHSU your lab manual from 2403 is still valid.

**New Students:** If you took A&P 1 or equivalent at another institution you will need to purchase the required lab manual. This is NOT an online lab manual. Please wait for further instructions from your lab instructor before purchasing.

## COURSE POLICIES AND ASSESSMENTS

As students at SHSU you are expected to behave in a professional and respectful manner. Please review the *Student Readiness Plan* and *Student Professionalism Guide* for more detail on policies and expectations for this course

**Lab Attendance:** Lab attendance is mandatory. You are required to stay the entire lab period. You may not leave during the lab without advance notice. Leaving during the lab will result in a zero for that lab's quiz and assignments. If you know will have to miss a lab, please make arrangements with the lab instructor. A lab absence must excusable according to university policy. Unexcused absences will result in zeroes for all quizzes, assignments, and practicals for the missed lab.

**Lab Material:** You are required to register for all required material. The Connect course site registration will remain open for a limit time. Once Connect registration has closed a second registration period will open in three weeks and remain open for 24 hours. You will not be allowed to make up any missed assignment during the closed registration period. The second registration period will be the final opportunity to register. If you miss the second registration period you will not be allowed access to any of the Connect assignments.

**Course Assessment:** This course has two components, lecture and lab, combined into one overall four-hour course grade. Your course grade will be determined by the following:

Assessment	Weighted (%)
Practicals	35
Post Labs	30
Quizzes	20
Presentations	15
<b>Total</b>	<b>100%</b>

**Practicals:** There are two lab practicals for this course. Practical will assess your ability to identify anatomical structures based on location and function. Material will be presented by

models, dissected animals, charts, and illustrations. Each practical will have 50 test items. Students will rotate through stations and have 30 seconds to answer that station's question. Students will rotate through all stations until they have finished the practical or the lab period has ended. A detailed protocol will be posted before each practical (this is not a review of content).

Students arriving to lab after the first 10 minutes will not be admitted to the practical and will receive a zero. A student missing a practical must have a documented excuse according to university policy. A make-up practical will be arranged by the course coordinator.

**Post Labs:** Post labs consist of questions from the end of each lab manual chapter. You will submit an individual post lab. Post labs will be typed and printed for submission at the beginning of the next lab period. Instructors will check off each submission for verification. It is your responsibility to make sure the instructor checked your name for verification of submission.

**Critical Thinking Exercises:** Certain lab chapters will feature critical thinking exercises (CTEs). The exercises will apply what you learned in lab to clinical or experimental cases. CTEs will be assigned at the completion of that lab period's experiment. Groups will immediately begin work on the CTEs with the remaining time. The CTEs are to be completed as a group (no individual work will be accepted). Each group will submit one completed CTE through *turnitin* in word or equivalent format. You must document and notify the instructor of any technical issues with *turnitin* submission. Late submissions will receive a 20% grade deduction. Make sure each member's

**Quizzes:** Quizzes will be approximately 10 multiple choice and short answer questions. Quizzes will cover anatomy and physiology exercises from previous labs. Quizzes will be administered at the beginning of lab. If you arrive to lab once a quiz has started, you will not be allowed to participate. You will receive a zero for that quiz.

**Presentations:** Each group will present on a topic determined by the instructor. Information about the presentation format will be posted by midterm.

**Typical Laboratory:** Your lab TA will provide a short introduction for the day's lab. You will begin going through the assigned material in your groups. You will do the lab assignments in the lab manual including identification, labeling, microscope, dissection, etc. You will complete the in-class lab manual assignments as you conduct your work. The lab manual may have group and class exercises to be completed. Many labs will end with a practice quiz through Connect APR. You will not be allowed to leave until 75% or higher is achieved. The lab will be *unavailable* during other times so your scheduled lab meeting is the only time you will have access to the material in the lab room.

**Lab Schedule:**

The following schedule is subject to change. All changes will be posted in advance on Blackboard.

Week	Lecture	Lab
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1 Jan 17	Ch 17	No Labs
2 Jan 22	Ch 17  Ch 18	Cardiovascular System: Blood  Cardiovascular System: Heart Anatomy: Models and APR
3 Jan 29	Ch 19	Cardiovascular System: Heart Anatomy: Cat  Cardiovascular System: Blood Vessels Anatomy: Cat
4 Feb 5	Ch 20	Cardiovascular System: Heart Physiology: 21.14 and PhILS 21.15
5 Feb 12	(CT Exercise)  <b>Exam 1</b>	Cardiovascular System: Circulation Physiology
6 Feb 19	Ch 21  Ch 22	The Respiratory System Anatomy: Cat and models  The Renal System Anatomy: Cat and models
7 Feb 26	Ch 22  Ch 23	<b>Lab Practical 1</b>
8 Mar 5	Ch 23  (CT Exercise)	The Respiratory System: Physiology
9 Mar 12	Spring Break	
10 Mar 19	<b>Exam 2</b>  Ch 24	The Renal System: Physiology
11 Mar 26	Ch 24  Ch 26	The Digestive System Anatomy: Cat and models
12 Apr 2	Ch 26  (CT Exercise)	The Digestive System Physiology  Enzyme lab

13 Apr 9	Ch 27	The Reproductive System: Models
14 Apr 16	Ch 28	<b>Lab Practical 2</b>
15 Apr 23	(CT Exercise) <b>Exam 3</b>	Presentations Prep
16 Apr 30	Review	Presentations
17 May 7	<b>Finals TBA</b>	