

**BIOLOGY 2403 F17**  
**HUMAN ANATOMY & PHYSIOLOGY LAB**  
**1 CREDIT HOUR**  
**FALL 2017**

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

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

**Lab 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

**Required Lab Manual:** Local Bookstores: Martin, Terry: Laboratory Manual for Human Anatomy and Physiology  
Publisher: McGraw-Hill Sciences  
ISBN:

**Attendance:** Attendance is mandatory. The tardy policy is as follows:  
Any student arriving to lab after the first five minutes will not be allowed to take the quiz and will receive a zero. If there is a lab practical that day the tardy student will not be admitted to the lab practical and will receive a zero.

Each class meets for approximately 3 hours and you are required to be present the entire class period. It will be almost impossible to pass the practicals and quizzes without attending all labs.

- In order to get credit for each lab and quiz, you must have your lab book exercise completed and checked by your Instructor.
- If you know you will have to miss a lab, please make arrangements with your Lab Instructor at the beginning of the semester about possibly attending another lab.
- If you miss a practical, you will NOT be allowed to make it up.
- NO MAKE-UPS FOR PRACTICALS.

**Cheating will not be tolerated.** Anyone caught cheating will be given a zero and will be reported to the Dean of Students for disciplinary action.

**Lab Protocol:**

- 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.

**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 Handouts on Blackboard:** For certain labs there will be a handout that you need to print and bring to class. **Please bring it with you to class.** This list may be modified from the corresponding lab manual exercise. This list may include or exclude certain content from the lab manual. You are expected to learn the list of terms before you leave lab. Always bring your lab book with you and work through the assigned lab exercises. It has very good pictures and questions to help you learn. The actual models/specimens used in lab often do not look exactly like the pictures in the book. This means that you cannot adequately prepare for your quizzes and tests by just studying the lab book—you must come to class too!

**In-Lab Assignment:** Each lab will have a in-lab assignments that must be completed and verified by the TA at the end of the lab session.

**Post Lab Assignment:** Each lab will have a post lab assignment that will be due at the beginning of the next lab. Not every post lab will be graded. TAs will randomly select post labs to grade throughout the semester. All assignments must be turned in by the individual student in lab. You cannot email any assignment. Each student must sign off on the roster when turning in their assignments.

**Lab Quizzes:** Lab quizzes will be conducted at the beginning of selected labs. Quizzes will consist of approximately 10 questions of multiple choice and short answer.

**Practical Exams:** There will be 3 lab practicals that will cover selected lab exercises. These practicals will consist of timed stations that individual students rotate through to identify and/or answer questions related to anatomy. Practical questions will come from the following sources:

- Lab Manual ID exercises and review questions
- Modified lab structure list
- Connect APR

Each student will receive an answer sheet to be filled out at each station. There will be no word bank provided so spelling is important for receiving full credit.

All cellphones must be put away for the practical. Any student with a cellphone in view, regardless if that student is using the phone, will receive a zero for the practical. Any student arriving ten minutes after the start of the practical will not be admitted and will receive a zero.

**There will be absolutely no make-up exams!**

**Grading:** Your lab and lecture grades are combined for one final grade. Normally, 25% or 30% of the entire course grade is from lab while 70% or 75% is from lecture, **but you should always check your lecture syllabus to verify.**

Assessment	Points	Percentage%
Practicals	100	40
Quizzes	20	30
Post Lab Assignment	Vary	20
In-Lab Assignments	10	10

### **Lab Schedule:**

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

Week	Lab Chapters	Lab Exercises
1	<b>No Lab</b>	
2	Ch.1 : The Laboratory Environment  Ch.2 : Orientation to the Human  Ch.4 : Cell Structure & Transport(HW)	1.1, 1.2  2.1, 2.2, 2.3,2.4, 2.5  APR Assignment

3	<b>Labor Day: No labs</b>	
4	Ch.3 : The Microscope  Ch. 5: Histology  Quiz 1	3.1, 3.2, 3.5, 3.6 5.1A-G, 5.2
5	Ch.5: Histology cont.  Ch 6: Integument  Quiz 2	5.3A-F, 5.4A-C
6	<b>Lab Practical 1</b>	<b>Ch 1-6</b>
7	Ch 7: The Skeleton System: Bone Structure & Function  Ch 8: The Skeleton System: Axial	7.1, 7.2, 7.3, 7.5  8.1, 8.2, 8.3, 8.4
8	Ch 8: The Skeleton System: Axial cont.  Ch. 9: The Skeleton System: Appendicular  Quiz 3	8.6, 8.7, 8.8, 8.9, 8.10  9.1, 9.2A-E, 9.4, 9.5A-D
9	<b>Lab Practical 2</b>	<b>Ch 7-9</b>
10	Ch.12: The Muscular System: Axial  Ch.13: The Muscular System: Appendicular	12.1, 12.2, 12.5, 12.6, 12.7, 12.8  13.1, 13.2, 13.3, 13.4,
11	Ch 13: The Muscular System: Appendicular cont.  Ch.11: The Muscular System: Muscle Structure & Function  Quiz 4	13.4, 13.5, 13.6, 13.7, 13.8  11.1, 11.3, 11.9, 11.2(Alternative)
12	Ch.15: The Brain & Cranial Nerves  Quiz 5	15.1, 15.2, 15.4, 15.5, 15.6, 15.7, 15.8, 15.10.A, C, D, E, F, G, H, J, K
13	Ch 18: General & Special Senses  Quiz 6	18.8A, B, 18.9 18.12, 18.17, 18.18, 18.19
14	<b>Thanksgiving: No Labs</b>	

15	Lab Practical 3	Ch.12-18
16	Finals Week: No Labs	