

Human Anatomy & Physiology I Lab

BIOL 221L – Spring Semester 2019/ RITA/Room 277

Required text: *Human Anatomy and Physiology, 11th Ed. (Marieb and Hoehn)*

Recommended Resources: *Complete Anatomy (app), Mastering A&P (Pearson)*

Website: OAKS

Contact information:

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Office hours: By appointment

Course Description

BIOL 221L, Human Anatomy & Physiology I lab, explores the gross morphology, microscopic anatomy, structure and function of the integumentary, skeletal, nervous, muscular (skeletal, cardiac, and smooth) and endocrine systems of the human body; and, provides hands-on experience for learning the topics and principles of physiology presented in the lecture.

Learning Outcomes

1. Identify and use the basic vocabulary of human anatomy and physiology.
2. Reiterate key physiological processes, and the relationship between structure and function.
3. Relate physiology to human health and disease.
4. Demonstrate an understanding of the scientific method and experimental design.

5. Demonstrate continued development of written, oral, and computational skill sets.
6. Demonstrate the ability to work as part of team.

Assessment

Assessment of the lab will be in the form of:

Practical Exams: There will be 2 practical exams

Quizzes: There will be 6 quizzes on material presented during the previous lab. Two lowest quiz grades will be dropped

Participation: You are expected to be on time to each laboratory. You are also expected to interact actively with your group and ask questions.

The laboratory component will make up 40% of your overall BIOL 221 grade. The lecture and laboratory components both count towards the final grade in BIOL 221, and are not assessed as separate units.

Questions on the lecture exams may cover any anatomical structure or physiological principle presented and emphasized in lab, including: 1) structures identified on anatomical lists, and their related functions; 2) material from the pre-lab and post-lab discussions; 3) background materials for lab activities posted on OAKS; and, 4) the results and physiological principles from experiments and activities performed in lab.

Practical Exam 1	150 pts
Practical Exam 2	150 pts
Quizzes	80 pts
<u>Participation</u>	<u>20 pts</u>
Total	400 pts (40% of overall grade in BIOL221)

Lab Attendance

Attendance at your registered lab meeting time is mandatory. You will sign into lab at the start of each session, and you will see your instructor to sign out of lab when you leave. Quizzes will be administered during the first 10 minutes of lab. Practical exams are timed and rotate through exam stations in order. If you are late to lab, or miss lab altogether, you will miss the opportunity to answer those questions at the missed quiz/exam stations. Two or more absences from laboratory will result in a WA (equivalent to an F) for the course (for BIOL221, not just BIOL221L).

Lab Attire

You should wear clothing that allows physical activity and the attachment of EMG/EKG electrodes. A good choice is shorts, shirts with short or no sleeves and closed toes shoes.

Student Conduct

a. There is to be no talking during the instruction period of the lab. If you have a question, please raise your hand prior to asking the question. While answering a student's question, please remain quiet so that the student and other class members can hear the reply.

b. There is to be no talking during the quizzes or practical exams. If you have a question, please raise your hand and remain quiet until the instructor can come to you.

c. Please turn off all cellular phones before entering the lab.

d. There is to be no talking during the instruction portion of the lab. If you have a question, please raise your hand prior to asking the question. While answering a student's question, please remain quiet so that the student and other class members can hear the reply.

e. Remember you are attending the lab to learn and apply the material/principles covered in the lecture, read newspapers/magazine, sleep, or distract the instructor or the other students.

f. If you have a documented disability than may require assistance, you will need to contact the Center for Disability Services for coordination in your academic accommodations. If the CDS will be involved in administering an exam, we request that you inform us in advance (e.g. the day before the exam is not acceptable). The CDS is located in the Lightsey Center in Suite 104. The CDS phone number is (843) 953-1431. For more information about disabilities, see <http://disabilityservices.cofc.edu>.

g. No College of Charleston employee or student should be subject to unwelcome verbal or physical conduct. It is expected that students, faculty and staff will treat one another with respect. Individuals who violate this policy are subject to disciplinary action up to and including termination and/or expulsion from the College and the possibility of civil and criminal prosecution.

h. Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student's actions are related more to a misunderstanding will be handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed by both the instructor and the student, will be forwarded to the Dean of Students and placed in the student's file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student's transcript for two years after which the student may petition for the X to be expunged. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

Students should be aware that unauthorized collaboration--working together without permission-- is a form of cheating. No collaboration during the completion of the quizzes or exams is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information stored on a cell phone), copying from others' exams, fabricating data, and giving unauthorized assistance.

Students can find the complete Honor Code and all related processes in the *Student Handbook* at <http://www.cofc.edu/generaldocuments/handbook.pdf>

Bio 221 Lab Schedule
Spring, 2020
(Subject to change with notice)

Week	Chapters	Subject
1/7		No lab
1/13	1; 3	Introduction; Microscopy; Cell
1/20		No lab
1/27	4	Histology

2/3	4; 5	Histology; Integument	Quiz 1
2/10	6; 7	Bone; Skeleton	Quiz 2
2/17	7; 8	Skeleton; Joints	Quiz 3
2/24		Lab Practical I	
3/2	9; 10	Micro Anatomy of muscle; Muscle Gross Anatomy – head	
3/9		Muscle – torso; Electromyography experiment	Quiz 4
3/16		Spring break; No Lab	
3/23	10	Muscle – arms, legs; Reflex latency experiment	
3/30	10;16	Muscle; Endocrine	Quiz 5
4/6	10; 16	Muscle; Endocrine	Quiz 6
4/13		Lab practical II	