

BIOL 222: Human Anatomy & Physiology II– Spring 2020
1215-1330, Tuesday and Thursday, RHSC 101

Instructor: Dr. Eric McElroy
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Office: RHSC 203
Office Hours: after class or by appointment or just stop by and knock.

Required text: *Human Anatomy and Physiology, 11th Ed. (Marieb and Hoehn)*
Recommended Resources: *Complete Anatomy (app), Mastering A&P (Pearson)*

Prerequisites: BIOL221/221L

Course Description

An introduction to the gross morphology, microscopic anatomy, structure and function of the nervous, vascular, respiratory, renal, digestive, immune, and reproductive systems of the human body. Lectures three hours per week; laboratory three hours per week. This course is intended for pre-allied health, physical education, and pre-nursing majors.

Learning Outcomes

1. Identify and use the basic vocabulary of anatomy and physiology
2. Reiterate key physiological processes
3. Relate physiology to human health and disease
4. Demonstrate continued development of written, oral, and computational skill sets
5. Demonstrate the ability to work as part of team
6. Demonstrate an understanding of the scientific method and experimental design

Assessment

Assessment of the course will be in several different formats. The Laboratory component will make up 40% of your overall BIOL 222 grade. The lecture and laboratory components both count towards the final grade, and are not graded as separate units.

Lecture:	Exam 1	150
	Exam 2	150
	Final Exam	200 (150 regular exam, 50 point comprehensive exam)
	Case Studies	40 pts
	Quizzes	30 pts
	Poll Everywhere	30 pts

Lab:	Practical Exam 1	100 pts
	Practical Exam 2	100 pts
	Practical Exam 3	100 pts
	Quizzes	80 pts
	Worksheets	20 pts

Total **1000 pts**

Exams will cover material presented in lecture and lab. Lecture exams 1 & 2 and lab practical exams are non-cumulative and will test the material presented since the previous exam. The lecture final exam has a 150 non-cumulative portion covering the last 1/3 of the course and a 50-point portion that is comprehensive for the entire course. Lab quizzes will cover material presented during the previous lab session(s). Worksheets will be handed out with the 'physiology' labs.

Case studies, quizzes and poll everywhere questions will occur intermittently during the semester. Please pay attention to emails and in-class announcements regarding these graded assignments. Missed poll everywhere questions cannot be made up for any reason. Quizzes are administered online and cannot be submitted after the due date. Case studies will not be accepted after the due date.

Your grades are not curved!

Grade Policy

93-100% A; 90-92% A-; 87-89% B+; 83-86% B; 80-82% B-; 77-79% C+; 73-76% C; 70-72% C-; 67-69% D+; 63-66% D; 60-62% D-; 0-59% F

Lecture Attendance

Your success in this course will depend on your attendance and study habits. Lectures will not necessarily cover introductory material or general information. Therefore, it is expected that you have read the assigned book chapter prior to attending lecture. The assigned book chapters should serve as an introduction to the topics to be discussed in lecture, and as a reference when studying the anatomical and physiological principles emphasized in lecture. Lecture PowerPoints will be posted to OAKS, but these do not contain notes, only figures used during lecture. You are encouraged to take advantage of every opportunity outside of the lecture to study the course material, whether that involves participating in study groups or attending SI study sessions. Please consider these opportunities and incorporate them into your study habits!

Student Conduct

1. There is to be no talking during the lecture. 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.
2. Remember, you are attending the lecture to learn, not to text-message, surf the internet, sleep, or distract the instructor or the other students.
3. Please only use technology as it relates to the lecture. Use cell phones for poll everywhere questions, use laptops and tablets to take notes. Please do not use your electronic devices to surf the web or social media; it is distracting to others and is presumably preventing you from learning!
4. Be prepared! Read the relevant sections in the assigned book chapters before coming to class and lab.
5. 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.

Honor Code and Academic Integrity

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 misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of 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 XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student's transcript for two years after which the student may petition for the XX to be expunged. The F is permanent. Students can find the complete Honor Code and all related processes in the *Student Handbook* at <http://deanofstudents.cofc.edu/honor-system/studenthandbook/index.php>

Disability/Access Statements

The College will make reasonable accommodations for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed.

LECTURE SCHEDULE

Week of	Topic	Book Chapters	Notes
1/6	Nervous System: CNS	11, 12	
1/13	CNS, PNS	12, 13	
1/20	PNS, ANS	13, 14	
1/27	Sensory, Cardiovascular	15, 18	
2/3	Cardiovascular	18, 19	Exam 1: 2/4
2/10	Cardiovascular	19	
2/17	Lymphatics, Blood, Immune System	17,20,21	
2/24	Respiratory System	22	
3/2	Respiratory	22	Exam 2 – 3/3
3/9	Renal System	25, 26	
3/16	Spring Break, no lecture		
3/23	Renal System	25, 26	March 25 is the last day to 'W'
3/30	Digestive System	23	
4/6	Digestive	23	
4/13	Digestive/Reproductive System	23, 27	
4/20	Reproductive System	27	
4/25	FINAL EXAM	Saturday, 4:00-7:00 PM	

*exam 1 and 2 dates subject to change with advanced notice

**timing of lecture topics subject to change depending on the flow of the semester

LAB SCHEDULE

Week	Chapters	Subject	
1/6 & 1/20		No labs first week, No labs MLK week	
1/13	11, 12	Brain	
1/27	12, 13, 14	Spinal Cord, Cranial Nerves, PNS, Sheep Brain Dissection	Quiz 1
2/3	15	Special Senses, Sensory Physiology Lab*	Quiz 2
2/10		Lab Practical I (Nervous System)	
2/17	18, 19	Heart, EKG*, Sheep Heart Dissection	
2/24	17, 20, 21	Blood Vessels, Blood Pressure*, Blood, Immune System, Lymphatics	Quiz 3
3/2	22	Respiratory, Spirometry	Quiz 4
3/9		Lab Practical II (Cardio-Respiratory Systems)	
3/16		Spring Break, no labs	
3/23	25, 26	Urinary System, Urinalysis*	
3/30	23	Digestive System	Quiz 5
4/6	27	Reproductive System	Quiz 6
4/13		Lab Practical III (Guts)	

*indicates that a worksheet is distributed with this lab.