

**BIOL 222: Human Anatomy & Physiology II– Spring 2019**  
**0925-1040, Tuesday and Thursday, RHSC 101**

**Instructor:** Dr. Eric McElroy  
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**Office:** RHSC 203  
**Office Hours:** after class or by appointment or if my door is open.

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

### 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

### LECTURE SCHEDULE

Week of	Topic	Book Chapters	Notes
1/7	<b>Nervous System: CNS</b>	<b>11, 12</b>	
1/14	<b>CNS, PNS</b>	<b>12, 13</b>	<b>MLK 1/15</b>
1/21	<b>PNS, ANS</b>	<b>13, 14</b>	
1/28	<b>Sensory, Cardiovascular</b>	<b>15, 18</b>	
2/4	<b>Cardiovascular</b>	<b>18, 19</b>	<b>Exam 1: 2/5</b>
2/11	<b>Cardiovascular</b>	<b>19</b>	
2/18	<b>Lymphatics, Blood, Immune System</b>	<b>17,20,21</b>	
2/25	<b>Respiratory System</b>	<b>22</b>	
3/4	<b>Respiratory</b>	<b>22</b>	<b>Exam 2 – 3/5</b>
3/11	<b>Renal System</b>	<b>25, 26</b>	
3/18	<b>Spring Break, no lecture</b>		
3/25	<b>Renal System</b>	<b>25, 26</b>	<b>March 25 is the last day to ‘W’</b>
4/1	<b>Digestive System</b>	<b>23</b>	
4/8	<b>Digestive</b>	<b>23</b>	

4/15	Reproductive System	27	Last Week of Class
4/25	FINAL EXAM	0800-1100	

### LAB SCHEDULE

Week	Chapters	Subject	
1/7 & 1/21		No labs	
1/14	11, 12	Brain, Review of Neurons	
1/28	12, 13, 14	Spinal Cord, Cranial Nerves, PNS	Quiz 1
2/4	15	Special Senses, Sensory Physiology Lab	Quiz 2
2/11		Lab Practical I (Nervous System)	
2/18	18, 19	Heart, EKG, Blood Vessels, Blood Pressure	
2/25	17, 20, 21	Blood, Immune System, Lymphatics	Quiz 3
3/4	22	Respiratory, Spirometry	Quiz 4
3/11		Lab Practical II (Cardio-Respiratory Systems)	
3/18		Spring Break	
3/25	25, 26	Urinary System, Urinalysis	
4/1	23	Digestive System	Quiz 5
4/8	27	Reproductive System	Quiz 6
4/15		Lab Practical III (Guts)	

### 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.

<b>Lecture:</b>	Exam 1	120 pts
	Exam 2	140 pts
	Case Studies	30 pts
	Quizzes	20 pts
	Poll Everywhere	20 pts
	Final Exam	270 pts
	<b>Lab:</b>	Practical Exam 1
Practical Exam 2		100 pts
Practical Exam 3		100 pts
Quizzes		90 pts
Participation		10 pts
<b>Total</b>		<b>1000 pts</b>

**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 is a cumulative exam. Lab quizzes will cover material presented during the previous lab session.

**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.

**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 form of academic dishonesty is acceptable. Dishonesty includes, but is not limited to: cheating on an exam; stealing exam questions; substituting one person for another at an exam; falsifying data; destroying, tampering with, or stealing a computer program or file; and plagiarizing (using as one's own the ideas and writings of another). If you are caught cheating you will be reported to the Chair of the Biology Department and you will receive a grade of 0 points for the paper, project, or exam in which the dishonesty was observed. Additionally, you may also receive an F for the course and may receive additional disciplinary action through the Dean of Students and Honor Board.
6. If you have a documented disability than may require assistance, you will need to contact the Center for Disability Services for coordination of 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>.
7. 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 discipline up to and including termination and/or expulsion from the College and the possibility of civil and criminal prosecution.