BIOL 222 (03): Human Anatomy & Physiology II – Spring 2023

LECTURE: In person, 9:00am-9:50pm, Monday, Wednesday and Friday, RITA 101
LAB: In person, lab instructors will provide a separate lab syllabus

Instructor: Dr. Andrew Clark
e-mail: clarkaj@cofc.edu
Office: RITA 123
Office Hours: By appointment, please email me to schedule Zoom or in-person meetings
Correspondence via e-mail during the week will be returned within 24 hours
Correspondence via e-mail during the weekend will be returned within 48 hours

SI Instructor: Eden Kirn
e-mail: kirne@g.cofc.edu

Required text
Anatomy and Physiology, openstax open-access textbook (Free)
https://openstax.org/details/books/anatomy-and-physiology

Recommended
Human Anatomy and Physiology Textbook (Marieb and Hoehn)
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

<table>
<thead>
<tr>
<th>WEEK OF</th>
<th>TOPIC</th>
<th>CHAPTERS</th>
<th>NOTES</th>
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</thead>
<tbody>
<tr>
<td>Jan 9</td>
<td>CNS – Brain</td>
<td>12, 13</td>
<td>First Day of Classes (1/11 Wed)</td>
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<tr>
<td>Jan 16</td>
<td>CNS – Brain &amp; Spinal Cord</td>
<td>12, 13</td>
<td>MLK 1/16 Mon; Quiz 1: 1/20 Fri</td>
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<tr>
<td>Jan 23</td>
<td>PNS – Cranial and Spinal Nerves</td>
<td>14</td>
<td>Quiz 2: 1/27 Fri</td>
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<td>Jan 30</td>
<td>Sensory, Motor, Processing</td>
<td>14</td>
<td>Exam 1: 2/3 Fri</td>
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<tr>
<td>Feb 6</td>
<td>ANS</td>
<td>15</td>
<td>Quiz 3: 2/10 Fri</td>
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<tr>
<td>Feb 13</td>
<td>Heart – Cardiac Cycle</td>
<td>19</td>
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<tr>
<td>Feb 20</td>
<td>Heart – Cardiac Output</td>
<td>20</td>
<td>Quiz 4: 2/22 Wed</td>
</tr>
<tr>
<td>Feb 27</td>
<td>Blood Vessels and Circulation</td>
<td>22</td>
<td>Exam 2: 3/1 Wed</td>
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<tr>
<td>Mar 6</td>
<td>Spring Break</td>
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<td></td>
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<tr>
<td>Mar 13</td>
<td>Blood, Lymphatics, Immune</td>
<td>18, 21</td>
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<tr>
<td>Mar 20</td>
<td>Respiratory System</td>
<td>22</td>
<td>Quiz 5: 3/24 Fri</td>
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<tr>
<td>Mar 27</td>
<td>Renal System</td>
<td>25, 26</td>
<td>Exam 3: 3/31 Fri.</td>
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<tr>
<td>Apr 3</td>
<td>Renal System</td>
<td>25, 26</td>
<td>Quiz 6: 4/12 Wed</td>
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<tr>
<td>Apr 17</td>
<td>Digestive System</td>
<td>23</td>
<td>Quiz 7: 4/21 Fri</td>
</tr>
<tr>
<td>Apr 24</td>
<td>Reproductive System</td>
<td>27</td>
<td></td>
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**Apr 26:** Last Day of Class

Exam 4 (4/26 Wed)

**FINAL EXAM is scheduled for 10:30am-12:30pm on May 3 (Wednesday)**
This exam will be taken **online.**

**PLEASE REVIEW THE LAB SYLLABUS FOR THE LAB SCHEDULE**
Assessment Methods
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:**
- Exams (best 3 of 4) 300 pts
- Quizzes (best 6 of 7) 60 pts
- Poll Everywhere 10 pts
- Assignments 30 pts
- Final Exam 100 pts

**Lecture Total** 500 pts adjusted to 600 pts

**Grade Policy for BIOL 222:**
- A 92.5-100%
- A- 89.5-92%
- B+ 86.5-89%
- B 82.5-86%
- B- 79.5-82%
- C+ 76.5-79%
- C 72.5-76%
- C- 69.5-72%
- D+ 66.5-69%
- D 62.5-66%
- D- 59.5-62%
- F 0-59.4%

Lecture totals (out of 500 points) will be adjusted to lecture totals out of 600 points. This will account for the 60% of your BIOL 222 grade. If applicable the same grading methods will be used with the lab totals to retain its 40% of your BIOL 222 grade.

Note that the percentage you earned will remain unchanged in your adjusted grade.

**Lab:**
- Practical Exam 1 80 pts
- Practical Exam 2 80 pts
- Practical Exam 3 80 pts
- Quizzes 100 pts
- Homework 40 pts
- Physiology Labs 20 pts

**Total** 400 pts

**Grand Total** 1000 pts

Lecture Exams cover material only presented in lecture: Exams 1-4 are non-cumulative and will test you on the material presented since the previous exam. Dates for these exams are listed in the schedule above. Lecture exams are online. The FINAL EXAM IS CUMULATIVE and will cover the entire lecture portion of the course. The final exam will be in a similar format to lecture exams and will be taken online.

Lecture Quizzes cover material only presented in lecture: Please review the lecture schedule on the syllabus for the dates of quizzes. All quizzes will be administered on OAKS and you will be required to use Lockdown/Respondus browser to take the quiz. On a given quiz date, the quiz becomes available at 10:00am and will remain open until 11:59 pm that evening. Each quiz is worth 10 points and you will be allowed up to 10 minutes to complete the quiz. Also, you will be allowed up to two times to take the quiz before 11:59 pm on that quiz date. The highest of the two scores will be recorded in your grade sheets.

Poll Everywhere Quizzes cover material only presented in lecture: Poll Everywhere quizzes are in person. Please review the lecture schedule on the syllabus for the dates of quizzes. Poll Everywhere quizzes may appear as pop quizzes (i.e. they will not be announced beforehand). On other occasions, you will be notified of a Poll Everywhere quiz in the previous lecture. If you happen to be absent from lecture on the date of a Poll Everywhere quiz, it is your responsibility to inform your instructor about this absence BEFORE the beginning of that lecture in order to receive credit. This rule only applies to students with valid absences substantiated with official documentation (e.g. a doctor’s note must be submitted to validate the absence due to illness).
Assignments cover material only presented in lecture: You are required to complete three of five available assignments. Each of these 10-point assignments will be posted on OAKS and they will include short answer questions, labelling, etc. You are expected to complete assignments independently and not as a team. You are required to print, complete, and submit physical copies of the assignments on their due dates. To receive full credit on each assignment, you must complete all questions and show your work on problem sets. If these two criteria are met you will not be penalized for incorrect answers on the assignment. Physical copies of assignments MUST be completed and submitted by 9 am on their due dates. Digital copies of completed assignments will not be graded. Please arrange to have a peer to submit your assignment, or, submit your assignment before the due date if you anticipate being absent from lecture. Late submissions will incur a 5-point penalty per business day (Monday through Friday) unless your absence on the due date is validated. Please slide your completed assignment under the door to my office if I happen to be absent.

Dropping the Lowest-Scored Exam and Quiz: After total points have been calculated (see methods above), I will drop your lowest-scored quiz and your lowest-scored exam. This rule only applies to students who have taken all seven quizzes and all four exams. Missing a quiz or exam due to invalid absences (e.g. a friend’s birthday party; flying out early for Spring Break) will result in a zero grade on that quiz and furthermore the sum of your quiz scores will be divided by 80 points instead of 70 points. This also applies to zero grades on exams, in which your exam scores will be divided by 400 points instead of 300 points. Students with valid absences substantiated with official documentation (e.g. a doctor’s note) will be permitted to take make-up quizzes and exams on OAKS. Questions in a make-up will be different from the questions used in the in-person version of that assessment.

Lecture Attendance
Your success in this course will depend on your attendance and study habits. Assigned book chapters may serve as an additional resource for reviewing some the anatomical and physiological topics discussed (especially 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!

Lecture Notes
Learning to listen and process information while taking notes on paper is a necessary skill for students and professionals. Taking notes on paper is especially important during BIOL 222 lecture, as most of my lectures are delivered with a chalkboard, whiteboard, or doc cam. In addition to chalkboard-style lectures, PowerPoint presentations may be delivered during lecture, and if delivered, will be posted on OAKS in pdf format. The material I present on a chalkboard or white board will not be posted on OAKS, however, materials written on the doc cam will be scanned and posted on OAKS under the “Lecture Notes” tabs.
### 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! Review relevant lecture notes and reading before coming to lecture.

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. Please read the Academic Integrity Statement below for more details.

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. Please read the Accommodations for Students with Disabilities statement below for more details.

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.

### Academic Integrity Statement

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, 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/.”
Accommodations for Students with Disabilities
Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged. Center for Disability Services/SNAP.

Center for Student Learning
The Center for Student Learning’s (CSL) academic support services provide assistance in study strategies, speaking & writing skills, and course content. Services include tutoring, Supplemental Instruction, study skills appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost. For more information regarding these services please visit the CSL website at http://csl.cofc.edu or call (843) 953-5635.

Mental and Physical Well-being
At the college, we take every students’ mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843) 953-5520. And if you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting either the Counseling Center (professional counselors at http://counseling.cofc.edu or (843) 953-5640, suite 300 in the Robert Scott Small Building). These services are there for you to help you cope with difficulties you may be experiencing and to maintain optimal physical and mental health.

Food and Housing Resources
Many CofC students experience food and housing insecurity. If you are facing challenges in securing food (such as not being able to afford groceries or get sufficient food to eat every day) and housing (such as lacking a safe and stable place to live), please contact the Dean of Students for support (http://studentaffairs.cofc.edu/about/salt.php). Also, you can go to http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php to learn about food and housing assistance that is available to you. In addition, there are several resources on and off campus to help. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need. Please also consider reaching out to your instructor if you are comfortable in doing so.