BIOLOGY 222 Course Syllabus: Human Anatomy and Physiology II
Fall – 2021

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Text Book:

Online Textbook from OpenStax (Free)
Textbook link: https://openstax.org/details/books/anatomy-and-physiology
The textbook is your main source of reference, review and learning.
Other Recommended Resources: Complete Anatomy (app), Mastering A&P (Pearson)

Lab: Visible Body: ($49.99)
Visible Body is a platform that you will use for labelling models as supplementary material.

Histology Guide: http://histologyguide.com (Free)

Lecture time and location: Lecture will meet in Room 154 in the Rita Liddy Hollings Science Center (RITA) from 8:00 am to 9:15 am on Tuesday and Thursday each week.

Course Description:
BIOL 222, Human Anatomy & Physiology II, explores the gross morphology, microscopic anatomy, structure, and function of the nervous, cardiovascular, respiratory, renal, digestive, immune, and reproductive systems of the human body. In addition, the lab presents the histology and gross anatomy of these tissues, organs, and organ systems, providing a hands-on experience for learning the topics and principles of physiology presented in the lecture. This course is intended for pre-allied health, pre-nursing, and physical education majors.

Prerequisites: Biology 111, 112 and 221 with labs.
Course Objectives and Student Learning outcomes:

- Students will attain a basic understanding of the human body as well as structure-function relationships between different parts of the body.
- Students will learn the essential terminology necessary to properly describe the fundamental relationships and orientation of structures in the human body.
- Students will be able to relate physiology to human health and disease.
- Demonstrate an understanding of the scientific method and experimental design.
- Demonstrate the ability to effectively communicate and work collaboratively together with peers in the laboratory.
- Students will demonstrate continued development of written, oral, and computational skill sets.

Grading:

Lecture grades
- **Lecture exams:** 3 exams 100 points each .............................................. 300pts
- **Final Exam:** ................................................................. 200pts
- **Quizzes:** 5 quizzes 20 points each .......................................................... 100pts
  I will give you 7 lecture quizzes and two lowest quiz grades will be dropped.

Laboratory Grades
- **Lab practical I** ................................................................. 80pts
- **Lab practical II** ................................................................. 80pts
- **Lab Final** ................................................................. 80pts
- **Quizzes** ................................................................. 60pts
  I will give you 6 lab quizzes, and two lowest quiz grades will be dropped.
- **Lab homework assignment** ................................................................. 80pts
- **Virtual physio lab** ................................................................. 20pts

The lecture and laboratory components both count towards the final grade in BIOL 222. They are not assessed as separate units.

- Letter grades are based on the following scale (percentage):
  - A 93 - 100
  - A- 90 - 92
  - B+ 87 - 89
  - B 83 - 86
  - B- 80 - 82
  - C+ 77 - 79
  - C 73 - 76
  - C- 70 - 72
  - D+ 67 - 69
  - D 63 - 66
  - D- 60 - 62
  - F less than 60
You are encouraged to take advantage of the Center for Student Learning’s academic support services. You will be offered a variety of services, including study strategies, speaking and writing strategies, and course content. The center provides tutoring, supplemental instruction, and workshops. A SI will also be available for lectures.

Computer requirement:

Please make sure that you have ready access to a computer to keep up with course materials. Additionally, this will be crucial in the event that students need to quarantine due to COVID. A reliable Internet connection is required. Use of a tablet, smartphone, or other mobile device is not guaranteed to work for all College of Charleston OAKS courses and should not be your primary/only means of accessing your course material.

Attendance Policy:

It is expected that you attend all lecture classes and labs. I expect you to inform me every time you miss a class, and in conjunction, I will trust that your explanation is honest and truthful.

In the event that you have missed your assessment due to your illness, medical emergency, family emergency, tragedy, please inform me and I will arrange a make-up for you. If you need to quarantine yourself due to COVID19 or other sickness, please inform me as early as possible, so I can determine reasonable accommodations for you to continue in the course. Failure to notify me your absence in a timely manner may result in no accommodations; i.e. zero points earned on those missed assessments. Failure to complete assessments on the (re)scheduled dates/times will result in zero points earned for that assessment(s), similar to an unexcused absence from lab or a missed quiz or exam in lecture.

Please adhere to CDC and SC DHEC Guidelines for quarantine and isolation due to COVID-19 close-contact exposure and/or infection. For close-contact exposure to somebody infected with COVID, vaccinated students may continue attending lecture and lab while wearing a mask (regardless of the status of the CofC mask mandate). Unvaccinated students who are exposed to somebody infected with COVID need to quarantine at home for 14 days, starting from the last date of exposure to the infected individual (at any time during their 10-day isolation period). Quarantine may be shortened to 10 days if no symptoms are experienced, or 7 days if no symptoms are experienced and a negative COVID result from a test completed on 5-7 days following last exposure. For vaccinated and unvaccinated individuals who have been exposed to COVID, it is advised that you monitor for symptoms daily, and obtain COVID testing 5-7 days after last exposure, even if asymptomatic.

Any student who tests positive for COVID needs to isolate for 10 days following the onset of symptoms, or 10 days following a positive-test result if they are asymptomatic. If, following 10 days of isolation, you are still presenting a fever and/or require medicine to reduce fever, please continue to isolate.

For unvaccinated students who need to quarantine at home for 14 days due to COVID exposure, or students who need to isolate at home for 10 days due to COVID infection, please notify me of your quarantine/isolation status.
Lecture and lab materials are available on OAKS. I will provide you recorded lecture and lab PowerPoint and online assessments during your quarantine period, and you are expected to complete assessments online in a synchronous fashion. If any medical complication arises during COVID infection that prevents your synchronous participation in lecture or lab activities and assessments, please communicate with me as soon as possible in order to modify accommodations. Failure to complete assessments on the scheduled dates/times will result in zero points earned for that assessment(s), similar to an unexcused absence from lab. Failure to notify me of your absence and/or medical hardship in a timely manner may result in no accommodations; i.e. zero points earned on those missed assessments.

I reserve the right to cancel in-person instruction and move class activities and/or assessments completely online if there is a concerning incidence of COVID infections and/or exposures among students in the class. This includes, but is not limited to: single incidents of infection exposing multiple unvaccinated students and subsequent quarantine of those students; multiple incidents of infection (either simultaneously or within a short timeframe) exposing multiple vaccinated or unvaccinated students; large-scale incidents of infection on campus (such as associated with large lecture sizes, academic or campus events, dormitories, cafeterias, etc) that present a reasonable, wide-scale risk of exposure to the CofC student body.

Timely notification of COVID exposure or infection impacts my ability to provide accommodations for course materials and assessments, and it may further impact the health of your fellow students and instructors, both in this course and across CofC.

Your responsibility:
- If you have developed ANY of the following: respiratory symptoms, fever, loss of taste/smell or other symptoms associated with COVID; please do not attend class or lab in-person. Notify me as soon as possible and seek COVID testing and/or medical consultation.
- If you have had close-contact with an individual who has tested positive for COVID, please follow the CDC/SC DHEC quarantine guidelines as summarized above. If you are unvaccinated and need to quarantine at home, notify me as soon as possible.
- If you have tested positive for COVID, isolate at home for the 10-day period as summarized above. Do NOT attend lecture and/or lab during this 10-day period. Notify your instructors as soon as possible.

Please consider the following: if you are unvaccinated, the COVID-19 vaccine significantly reduces your chances of COVID infection, and reduces your chances of severe COVID-related symptoms or complications if infected. The current resurgence of COVID infections and hospitalizations due to the COVID delta variant is occurring in predominantly unvaccinated individuals (>90% of hospitalizations). Furthermore, consider the risk of infection associated with attending indoor events where social distancing cannot be maintained and/or mask-use is not widespread. It is our hope that you remain healthy throughout the semester, and we will attempt to provide reasonable accommodations if quarantine or isolation is necessary. However, if repeated and/or extended accommodations are requested, you may be referred for a medical withdrawal from the course.
Disabilities: The College will make reasonable accommodations for individuals 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.

Academic Dishonesty:

Academic dishonesty is not tolerated at College of Charleston. Academic 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 exam questions a computer program or file, and plagiarizing. Students are responsible for adhering to all the policies and procedures in the College of Charleston Student Handbook.

Guidelines for this course will follow the College of Charleston Undergraduate Catalog policies for Academic Integrity and the Honor Code, Student Code of Conduct, and Classroom Code of Conduct. Students can find the complete Honor Code and all related processes in the Student Handbook at http://www.cofc.edu/generaldocuments/handbook.pdf

If you are caught cheating, you will be reported to the Chair of the Biology Department, and you will receive a grade of 0 point 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. Furthermore, students may receive a XXF for the course to indicate course failure as a result of academic dishonesty. This notation will remain for two years, after which the student may petition to have it expunged. However, the F will remain on the student’s record. Individuals may also be subject to disciplinary probation, suspension, or expulsion from College of Charleston by the Honor Board.

If in-person classes are suspended due to inclement weather, pandemic, or substantial interruption of instruction, I will announce a detailed plan for changes in modality of the course to ensure the continuity of learning. All students must have access to a computer equipped with a camera, microphone, and Internet access.

BIOL 222 Lecture Schedule. Fall, 2021
(Subject to change with notice)

<table>
<thead>
<tr>
<th>Week of</th>
<th>Chapter</th>
<th>Subject</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/24</td>
<td>12</td>
<td>Nervous System – Nervous tissue</td>
<td></td>
</tr>
<tr>
<td>8/30</td>
<td>13</td>
<td>Anatomy of nervous system</td>
<td></td>
</tr>
<tr>
<td>9/6</td>
<td>14</td>
<td>SNS</td>
<td>Quiz 1 9/9 (Chs 12;13)</td>
</tr>
<tr>
<td>9/13</td>
<td>15</td>
<td>ANS</td>
<td>Quiz 2 9/16 (Ch 14;15)</td>
</tr>
<tr>
<td>Date</td>
<td>Day</td>
<td>Topic</td>
<td>Exams/Quizzes</td>
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<tr>
<td>9/20</td>
<td>18</td>
<td>CVS: Blood</td>
<td>Exam 1 (Chapters 12-15) 9/23</td>
</tr>
<tr>
<td>9/27</td>
<td>19</td>
<td>CVS: The Heart</td>
<td></td>
</tr>
<tr>
<td>10/4</td>
<td>20</td>
<td>Blood vessels and circulation</td>
<td>Quiz 3 (Chapters 18) 10/7</td>
</tr>
<tr>
<td>10/11</td>
<td>21</td>
<td>Lymphatics and Immune system</td>
<td>Quiz 4 (Chapters 19) 10/14</td>
</tr>
<tr>
<td>10/18</td>
<td>22</td>
<td>Respiratory system</td>
<td>Quiz 5 (Chapters 20 and 21) 10/21</td>
</tr>
<tr>
<td>10/25</td>
<td>22</td>
<td>Respiratory system</td>
<td>Exam 2 (Chapters 18-21) 10/28</td>
</tr>
<tr>
<td>11/1</td>
<td>23</td>
<td>Digestive system</td>
<td></td>
</tr>
<tr>
<td>11/8</td>
<td>25</td>
<td>Urinary system</td>
<td>Quiz 6 (Chapters 22) on 11/9 and Quiz 7 (Chapter 23) on 11/11</td>
</tr>
<tr>
<td>11/15</td>
<td>26</td>
<td>Fluid, Electrolyte and Acid-base balance</td>
<td>Exam 3 (Chapters 22, 23 and 25) 11/18</td>
</tr>
<tr>
<td>11/22</td>
<td>27</td>
<td>Reproductive system</td>
<td></td>
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<tr>
<td>11/29</td>
<td>27</td>
<td>Reproductive system; Review</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Final Exam (Cumulative)</strong></td>
<td>12/9</td>
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No food or drinks are allowed inside the lab, and please wear closed toed shoes. Before leaving the laboratory, organize and clean your lab area. Report any accident or injury to me immediately.

**COVID-19 safety guidance:**

To reduce the impact of COVID-19 outbreak conditions, all students are required to use face coverings at all times in the lab and outside of the lab classroom. **Stay home if you are sick.**
<table>
<thead>
<tr>
<th>Week</th>
<th>Chapters</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/24</td>
<td>12, 13</td>
<td>Brain, Spinal Cord</td>
</tr>
<tr>
<td>8/30</td>
<td>13</td>
<td>Cranial and peripheral nerves;</td>
</tr>
<tr>
<td>9/6</td>
<td>13</td>
<td>Special Senses</td>
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<tr>
<td>9/13</td>
<td>13</td>
<td>Lab assignment 3 Quiz 2</td>
</tr>
<tr>
<td>9/20</td>
<td></td>
<td>Lab practical I Quiz 3</td>
</tr>
<tr>
<td>9/27</td>
<td>19</td>
<td>Heart; Blood vessel - Arteries</td>
</tr>
<tr>
<td>10/4</td>
<td>20</td>
<td>Blood vessel- veins; Lymphatic;</td>
</tr>
<tr>
<td>10/11</td>
<td>18;21</td>
<td>Respiratory; review</td>
</tr>
<tr>
<td>10/18</td>
<td></td>
<td>No Lab</td>
</tr>
<tr>
<td>10/25</td>
<td></td>
<td>Lab practical II</td>
</tr>
<tr>
<td>11/1</td>
<td>23</td>
<td>Digestive system</td>
</tr>
<tr>
<td>11/8</td>
<td>25</td>
<td>Renal Anatomy</td>
</tr>
<tr>
<td>11/15</td>
<td>27</td>
<td>Reproductive system; Review</td>
</tr>
<tr>
<td>11/22</td>
<td></td>
<td>No Lab</td>
</tr>
<tr>
<td>11/29</td>
<td></td>
<td>Lab practical III</td>
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</tbody>
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Additional Information:

- Make sure that you check your college Email Daily!
  - All communication pertaining to the lecture and lab will be done through your college e-mail and OAKS account.
- You are responsible for all the information provided in the e-mails sent to you, and you must check for messages on a daily basis throughout the entire semester, including the weekend.

- **Where to find your grades:**
  - The grades will be posted on OAKS.

- **PowerPoints will be posted on OAKS.**
  - Recorded lecture PowerPoints will be posted on OAKS

- **Extra Credit Policy:**
  - I do not offer any additional work for extra credit

**Important Dates:**

- **August 27** – Last day to Add
- **August 31** – Last day to Drop
- **December 6** – last day to withdraw with a “W” grade
- **December 9** – Lecture Final