BIOLOGY 222 Course Syllabus: Human Anatomy and Physiology II
Fall – 2022

Instructor: Mausumi Bandyopadhyay, Ph.D  
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Phone: 843-953-7112  
Office hours: By appointment  
E-mail: bandyopadhyaym@cofc.edu

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, and provides 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 practical III** ..................................................................................................80pts
- **Quizzes** 4 lab quizzes 15 each ............................................................................60pts
  I will give you 6 lab quizzes, and two lowest quiz grades will be dropped
- **Lab homework assignment** .................................................................................40pts
- **Physio lab** ..........................................................................................................40pts
- **Participation** ......................................................................................................20pts

The lecture and laboratory components both count towards the final grade in BIOL 222, and 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.

- Individuals who are vaccinated and boosted and who have had close contact with a COVID positive case are not required to quarantine, but testing is strongly recommended at 5 days from
exposure. Wear a high-quality mask such as a KN95 for 10 days following exposure while around others.

- **Individuals who are vaccinated but not boosted** and who have had close contact with a COVID positive case must quarantine for a minimum of 5 days and are strongly recommended to test on day 5. Wear a high-quality mask such as a KN95 while on campus or around others on days 6-10 of quarantine.
- **Individuals who are unvaccinated** and have had close contact with a COVID positive case must quarantine for a minimum of 5 days and are strongly recommended to test on day 5. Wear a high-quality mask such as a KN95 while on campus or around others on days 6-10 of quarantine.

Masks are not currently required on campus unless one of the following applies:

- You are on days 1-5 of isolation or required quarantine and have not yet left campus.
- You are on days 6-10 of your isolation and have returned to campus.
- You are unvaccinated or not current on your COVID-19 vaccines and are returning to campus on days 6-10 of your quarantine due to a close contact with a positive COVID-19 case.

For unvaccinated students who need to quarantine at home or students who need to isolate at home, please notify me of your quarantine/isolation status.

**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, inappropriate use of a college computer or cellphone, unauthorized collaboration, plagiarism, and falsification of information. 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

When a student is suspected of violating the Honor Code, he or she will be reported to the Dean of Students by the instructor. Furthermore, students will 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.

**Use of Cell Phones and Computers:**

Cell phones are encouraged only when it is during an activity where students are engaged with materials and may want to reference to a picture (i.e. labs). Please turn all electronic devices off or on vibrate before entering class.
<table>
<thead>
<tr>
<th>Week of</th>
<th>Chapter</th>
<th>Subject</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/23</td>
<td>12</td>
<td>Nervous System – Nervous tissue</td>
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<tr>
<td>8/29</td>
<td>13</td>
<td>Anatomy of nervous system</td>
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<tr>
<td>9/5</td>
<td>14</td>
<td>SNS</td>
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<tr>
<td>9/12</td>
<td>15</td>
<td>ANS</td>
<td>Quiz 1 9/13 (Chs 12;13)</td>
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<tr>
<td>9/19</td>
<td>18</td>
<td>CVS: Blood</td>
<td>Quiz 2 9/20 (Chs 14;15)</td>
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<tr>
<td>9/26</td>
<td>19</td>
<td>CVS: The Heart</td>
<td>Exam 1 (Chapters 12-15) 9/27</td>
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<tr>
<td>10/3</td>
<td>19:20</td>
<td>CVS: The Heart; Blood vessels and circulation</td>
<td>Quiz 3 (Chapters 18) 10/6</td>
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<tr>
<td>10/10</td>
<td>20;21</td>
<td>Blood vessels and circulation; Lymphatics and Immune system</td>
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<tr>
<td>10/17</td>
<td>22</td>
<td>Respiratory system</td>
<td>Quiz 4 (Chapters 19) 10/20</td>
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<tr>
<td>10/24</td>
<td>22</td>
<td>Respiratory system</td>
<td>Quiz 5 (Chapters 20 and 21) 10/27</td>
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<tr>
<td>10/31</td>
<td>23</td>
<td>Digestive system</td>
<td>Exam 2 (Chapters 18-21) 11/1</td>
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<tr>
<td>11/7</td>
<td>25</td>
<td>Urinary system</td>
<td>Quiz 6 (Chapter 22) 11/10</td>
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<tr>
<td>11/14</td>
<td>26</td>
<td>Fluid, Electrolyte and Acid-base balance</td>
<td>Quiz 7 (Chapter 23) 11/17</td>
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<tr>
<td>11/21</td>
<td>27</td>
<td>Reproductive system</td>
<td>Exam 3 (Chapters 22, 23 and 25) 11/22</td>
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<tr>
<td>11/28-12/5</td>
<td>27</td>
<td>Reproductive system; Review</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 or lab supervisor immediately.

**Biology 222 Lab Schedule**

*Fall, 2022*

*(Subject to change with notice)*

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapters</th>
<th>Subject</th>
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<tbody>
<tr>
<td>8/23</td>
<td></td>
<td>No Lab</td>
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<tr>
<td>8/29</td>
<td>12, 13</td>
<td>Brain, Spinal Cord</td>
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<td></td>
<td></td>
<td><strong>Lab assignment 1</strong></td>
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<tr>
<td>9/5</td>
<td>13</td>
<td>Cranial and peripheral nerves;</td>
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<td></td>
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<td><strong>Lab assignment 2</strong> <strong>Quiz 1</strong></td>
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<tr>
<td>9/12</td>
<td>13</td>
<td>Special Senses</td>
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<td><strong>Lab assignment 3</strong> <strong>Quiz 2</strong></td>
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<tr>
<td>9/19</td>
<td></td>
<td><strong>Lab practical I</strong></td>
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<tr>
<td>9/26</td>
<td>19</td>
<td>Heart; Blood vessel - Arteries</td>
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<td><strong>Lab assignment 4</strong></td>
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<td>10/3</td>
<td>20</td>
<td>Blood vessel- veins; Lymphatic; Blood; Immune system</td>
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<td><strong>Lab assignment 5</strong> <strong>Quiz 3</strong></td>
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<tr>
<td>10/10</td>
<td>18;21</td>
<td>Respiratory; review</td>
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<td><strong>Lab assignment 6</strong> <strong>Quiz 4</strong></td>
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<tr>
<td>10/17</td>
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<td><strong>Lab practical II</strong></td>
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<tr>
<td>10/24</td>
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<tr>
<td>10/31</td>
<td>25</td>
<td>Renal Anatomy</td>
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<td><strong>Lab assignment 8</strong> <strong>Quiz 5</strong></td>
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<tr>
<td>11/7</td>
<td></td>
<td>No lab</td>
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<tr>
<td>11/14</td>
<td>27</td>
<td>Reproductive system; Review</td>
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<tr>
<td></td>
<td></td>
<td><strong>Quiz 6</strong></td>
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<tr>
<td>11/21</td>
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<td>No Lab</td>
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<tr>
<td>11/28</td>
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<td><strong>Lab practical III</strong></td>
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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.**
  - I use PowerPoints during the lecture, and I also place notes on the board.

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

Important Dates:

- **Monday, August 29** – Drop/Add
- **Friday, October 28** – last day to withdraw with a “W” grade
- **Thursday December 8** – Final Exam (8-10am) in your regular classroom (RITA/154)