



**BIOLOGY 222 Course Syllabus: Human Anatomy and Physiology II**  
**Fall – 2020**  
**Lecture Online and Lab Hybrid (online and in-person delivery)**

**Instructor:** Mausumi Bandyopadhyay, Ph.D

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**Office hours:** Mondays and Fridays before and after lab.

**Virtual office hours:** We can meet via zoom. Email me to make an appointment

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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 for online and in-person modelling in the lab:

Join the visible body course using the link

[https://courseware.visiblebody.com/courses/27361/join?join\\_course\\_token=LT4pNBdGZtsXPELzzhX2Z2ko&site\\_license=false](https://courseware.visiblebody.com/courses/27361/join?join_course_token=LT4pNBdGZtsXPELzzhX2Z2ko&site_license=false)

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

**Lecture time and location:** Lecture will be delivered online and asynchronous. This means that I will load lectures, activities, etc. onto OAKS, and you will be able to work, to some extent, at your own pace. However, graded materials will have deadlines; for example, quizzes and exams will have start and end times (typically a short window of a few hours). **KEEP UP WITH THE MODULES!** Make time every day (2+ hours) to view the lectures, take notes, review materials, read the book, and prepare for exams and quizzes! Don't think that online = easy; it's harder because you have to stay self-motivated. Don't try to cram in the lectures around a job.

### 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**..... **240pts**
- **Quizzes** 3 quizzes 20 points each ..... **.60pts**  
I will give you 5 lecture quizzes and two lowest quiz grades will be dropped

#### Laboratory Grades

- **Lab practical I** ..... **80pts**
- **Lab practical II** ..... **80pts**
- **Lab Final** ..... **80pts**
- **Quizzes** ..... **80pts**  
I will give you 5 lab quizzes, and the lowest quiz grade will be dropped
- **Lab assignment**..... **80pts**

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 ensure that you have reliable access to a laptop with the required minimum hardware, software, and Internet requirements in order to complete all graded activities within this course. **A reliable Internet connection is required.** Dial-up Internet does not meet minimum requirements. 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 online courses. Students will need to download the most updated version of **Lockdown Browser and Respondus monitor**, which has a webcam, for all lecture exams and the 1<sup>st</sup> lab practical.

### **Attendance Policy:**

The normal attendance policy will not be heeded this semester due to the ongoing pandemic. As a result, no portion of your grade will count towards attendance. I will trust you to inform me every time you miss a class, and in conjunction, I will trust that your explanation is honest and truthful.

If you become ill and need to quarantine yourself due to COVID19 or related sickness, please inform me as early as possible so that I can determine reasonable accommodations for you to continue in the class.

**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, 2020 (Subject to change with notice)

Week of	Chapter	Subject	Exam
8/25	12	Nervous System – Nervous tissue	
8/31	13	Anatomy of nervous system	
9/7	14	SNS	<b>Quiz 1 9/9 (Chs 12;13)</b>
9/14	15	ANS	<b>Quiz 2 9/16 (Ch 14;15)</b>
9/21	18	CVS: Blood	<b>Exam 1 (Chapters 12- 15) 9/23</b>

9/28	19	CVS: The Heart	
10/5	20	Blood vessels and circulation	
10/12	21	Lymphatics and Immune system	<b>Quiz 3 (Chapters 18 and 19) 10/14</b>
10/19	22	Respiratory system	<b>Quiz 4 (Chapters 20 and 21) 10/21</b>
10/26	23	Digestive system	<b>Exam 2 (Chapters 18-22) 10/29</b>
11/2	24	Metabolism and Nutrition	
11/9	25	Urinary system	<b>Quiz 5 (Chapters 23 and 24) 10/21</b>
11/16	26	Fluid, Electrolyte and Acid-base balance	<b>Exam 3 (Chapters 23-25) 11/18</b>
11/23	27	Reproductive system	
12/5		<b>Final Exam (Cumulative)</b>	<b>12/8</b>

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.** Students will be divided into two groups. One group will start their lab from 1pm to 2:25pm, and the 2<sup>nd</sup> group will start from 2:35pm to 4pm. Students will wash their hand before and after the lab. Follow the posters reminding you to wear masks, wear gloves when handling models, wash your hands (when you enter the lab and before you leave lab), and disinfect surfaces (when you enter and before you leave lab).

**Biology 222 Lab Schedule**  
**Fall, 2020**  
 (Subject to change with notice)

Week	Chapters	Subject
8/25	12, 13	Brain, Spinal Cord <span style="float: right;">Lab assignment 1</span>
8/31	13	Cranial and peripheral nerves; <span style="float: right;">Lab assignment 2 Quiz 1</span>
9/7	13	Special Senses, Brain dissection <span style="float: right;">Lab assignment 3 Quiz 2</span>
9/14		<b>Lab practical I</b>
9/21	19	Heart; EKG
9/28	20	Blood vessel; Blood pressure; Heart Dissection <span style="float: right;">Lab assignment 4 Quiz 3</span>
10/5	18;21	Lymphatic; Blood; Immune system <span style="float: right;">Lab assignment 5 Quiz 4</span>
10/112	22	Respiratory; Spirometry <span style="float: right;">Lab assignment 6 Quiz 5</span>
10/19		<b>Lab practical II</b>
10/26	23	Digestive system
11/2	23;25	Renal Anatomy; Urine analysis <span style="float: right;">Lab assignment 7</span>
11/9	27	Reproductive system <span style="float: right;">Lab assignment 8 Quiz 6</span>
11/16		<b>Lab practical III</b>

**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:**

- **Monday, August 31** – Drop/Add
- **Wednesday, October 28** – last day to withdraw with a “W” grade
- **Tuesday December 8** – Lecture Final