## **BI 233 – HUMAN ANATOMY & PHYSIOLOGY (CRN 41709)**

## **INSTRUCTOR**: Andrea Waite, Ph.D. **LECTURE**: Live online, Tuesdays 5:30 – 8:20PM

## **OFFICE**: Off campus **LAB**: Live online, Thursdays 5:30 – 8:20PM

## **PHONE**: Prefer email **OFFICE HOURS**: Live online, Mondays 4:30 – 5:30PM

## **EMAIL**: [waitea@linnbenton.edu](mailto:waitea@linnbenton.edu) Live online, Fridays 1:00 – 2:00PM

## **COURSE DESCRIPTION**

Human Anatomy and Physiology: BI 233 is part of a three-term sequence: BI 231, 232, and 233, intended for those desiring to enter the health profession. In this term we will study blood vessels, blood pressure, fluid and electrolytes, immunity, as well as the respiratory, urinary, digestive, and reproductive systems. Because the body can best be understood as a unified structure, we will emphasize the interrelationships between the body's parts, communication between cells and organs, control systems, and homeostasis.

Course activities include lecture, laboratory work, discussions, homework, and exams. After successful completion of BI 233 with a “C” or better, you should be able to:

1. Demonstrate knowledge of lymphatic, respiratory, urinary, digestive, and reproductive system structure and be able to relate it to its function.
2. Use appropriate terminology to effectively communicate information related to anatomy and physiology.
3. Recognize the interrelationships between and within physiological systems.
4. Recognize the principles of homeostasis in a physiological system.
5. Evaluate case-based scenarios effectively using knowledge of anatomy and physiology.

## **REQUIRED MATERIALS**

* Marieb and Hoehn, Anatomy & Physiology, 11th edition
* Anatomy & Physiology Custom Lab Manual for LBCC (recommended)
* Lebsack’s, BI 233 - Study Guide: Human Anatomy & Physiology
* Zoom app (<https://support.zoom.us/hc/en-us/categories/200101697>)

## **GRADING**

Your grade will be determined by your performance in several categories. The percent contribution of each category toward the final grade is shown below:

## **POINT DISTRIBUTION** **LETTER GRADE/PERCENTAGE**

2 Quizzes @ 44 pts each = 88 pts A = 90 – 100%

2 Midterm exams @ 88 pts each = 176 pts B = 80 – 89%

Prelab and homework assignments = 60 pts C = 70 – 79%

Lab activities = 29 pts D = 60 – 69%

Final Exam = 100 pts F ≤ 59.9%

Total points possible 453 pts

The above distribution of points and total points possible are only approximate and as with the course schedule, is subject to change.

One additional grade assignment is possible; an incomplete. An incomplete will be issued *only* if ALL course material other than the final exam has been completed and a contract is established detailing the plan and time frame in which the incomplete course work is to be finished. This must be signed by both the student and the instructor and placed on file in the Division office.

## **CLASS ATTENDANCE, EXAMS, AND MAKEUPS**

Course assignments, quizzes, and exams give you a chance to review and to be challenged by the material you have learned. They help you evaluate how you are doing in the course. During the term there will be two lecture quizzes and two midterm exams, a variety of homework and lab assignments, and a comprehensive final exam. **All assignments are due by the due date and time and will not be accepted late. This holds true even though the submission is electronic. We will be reviewing assignments in class, so they must be submitted electronically before they are reviewed as a class.**

Lecture quizzes and midterms will consist entirely of multiple choice questions. Some questions will test your memory of structures and functions while others will require an application of your knowledge to unique situations and problems. If you are unable to take a quiz or midterm at the scheduled time for a documentable reason, you may be given a make-up exam at the instructor’s discretion. Please contact me prior to the exam if at all possible. **Each student will only be allowed one makeup exam per term, and only at the instructor’s discretion. Any further makeup exams will be in the form of an essay exam.** Communication is the key to making certain you have a good opportunity for completing all quizzes and exams.

## **LECTURE**

The group meeting will be highly modified this term to meet the required electronic format. Class sessions will be live via Zoom. Please download the app and create your account before the first class session. Instructions can be found here: <https://support.zoom.us/hc/en-us/categories/200101697> You will receive an invitation to join our class meetings via email. Simply click the link and join in. If you cannot attend the live class, all lectures will be recorded and posted to Moodle. If we fall behind in course material, additional lectures may be posted online as well. I encourage you to use your course schedule to identify the topics that we will focus on during class and scan the appropriate material in your textbook and Study Guide before we meet.

## **LEARNING OBJECTIVES**

The “Learning Objectives”, located at the beginning of each section in the Study Guide, point out major facts and concepts that you should use to direct your studies. It is important to realize that this course is much more than learning a series of related facts and concepts. You will need to apply your knowledge. This may require you to develop new learning skills and strategies. Part of the class goal is to facilitate the development of these skills.

## **LABORARTORY**

Laboratory is a mandatory part of the course. All labs will be online this term. **If you are unable to attend the live lab session, you will be allowed to complete the lab materials on your own, and they will be due by the following Tuesday at 5:30PM.** If you do not turn the lab materials in on time, you will be unable to make up the lab points. Many of the activities will be difficult to complete without partners and without the benefit of live instructions, so make every effort to attend the live lab classes. Material presented in lab will both complement lecture material and represent a portion of each future exam. **You must complete the materials from 7 out of the 9 labs to pass the class.**

## **STUDY SUGGESTIONS**

There are many study strategies that can help you be successful in this class. These include the following:

* **Quiz yourself** on the material each day so you can gauge your understanding and ask questions on material you do not understand. The study guides posted on the instructor website are an excellent way to do this.
* **Keep up** with the information presented in class by **reviewing** a little each day after you have quizzed yourself. Quizzing yourself BEFORE review has been proved by research to be the most effective way of studying.
* **Read your textbook** when there are areas that we have covered in class that are unclear to you.
* **Turn** **assigned work in on time**.

It is very important that you keep up with the material and not get behind. Be sure to get any assigned work turned in on time. Most students find it helpful to participate in a **study group** that meets for an hour or two once or twice per week to review material. I again recommend the Zoom app for this purpose. Use the study group to check your knowledge, to quiz each other, to ask about points you don’t understand, and to help each other learn difficult material. It is important for you to identify areas that are unclear and material you don’t understand *before* a quiz or exam.

Additional instructional services, beyond classroom instruction and instructor consultations, are available for all students at the Learning Center.

## **MOODLE AND MYLAB AND MASTERING**

Moodle will be used in this course as a means for facilitating success in this course. Lecture materials, recorded lectures, supplemental materials, and assignments may be posted to Moodle. As such, it is the responsibility of the student to check Moodle regularly for newly posted materials.

MyLab and Mastering is an online learning platform that is accessible to students through Moodle. Online assignments will be available throughout the term to help you manage the material presented in this course. This is an excellent resource for self-assessment as well. Many of our labs will use material through this system, so make sure that you can access everything before the first lab.

## **STUDENT BEHAVIOR**

The online format of this course may make it more challenging to recognize and maintain academic integrity. As always, however, the college has very strict standards for academic integrity, and expects that students will uphold those standards, even in this new format. Cheating on exams and copying homework/activities will result in a zero for that activity and may result in further disciplinary action**.** This action may include any of the following: a zero grade on the assignment or exam; a failing grade in the course; expulsion from the college. **Copying exam questions, taking pictures of exams or other forms of documentation are strictly prohibited at all times and any student engaging in such activities will face consequences from the college**. Plagiarism is also cheating and includes turning in someone else’s work as if it were your own, using sources (another person’s ideas, words, or facts) without giving credit to them, not listing sources at the end of a paper or copying a paper off the Internet, etc. Although collaboration is important in learning, ultimately each student is responsible for demonstrating individual ability. While you may collaborate with other students on the prelab, homework, and lab assignments, you must turn in your own individual work phrased in your own words. Identical or nearly identical wording on assignments will result in a zero grade for all students involved. Further details about LBCC’s policy on cheating may be found in the Administrative Rule: 7030-02, Academic Integrity. The basis for determining behavior and expectations in this class is outlined in the LBCC Student Handbook. (On a personal note, please don’t cheat. It is my least favorite thing to deal with as an instructor, but is infinitely worse for the student. Maintain your integrity. In the end, it’s far more important than a grade.)

## **COLLEGE POLICIES**

## **LBCC EMAIL AND COURSE COMMUNICATIONS**

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email and your Moodle account through Moodle.

## **DISABILITY AND ACCESS STATEMENT**

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [CFAR Website](http://www.linnbenton.edu/cfar) for steps on how to apply for services or call 541-917-4789.

## **STATEMENT OF INCLUSION**

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

## **TITLE IX REPORTING POLICY**

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](https://linnbenton-advocate.symplicity.com/public_report/index.php/pid073717?) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

## **PUBLIC SAFETY/CAMPUS SECURITY/EMERGENCY RESOURCES**

In an emergency, call 911. Also, call LBCC Campus Security/Public Safety at [541-926-6855](tel:(541)%20926-6855) and [541-917-4440](tel:(541)%20917-4440).

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](http://lbccpublicsafety.mobapp.at/landing/Desktop) available for free. We encourage people to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed. Visit them to learn more.

## **CHANGES TO THE SYLLABUS**

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class or through LBCC e-mail.

## **BI 233 – HUMAN ANATOMY & PHYSIOLOGY**

## **TENTATIVE CLASS SCHEDULE, SPRING 2020**

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| **Week** | **Lecture** (Live online, Tuesdays 5:30-8:20PM) | **Lab** (Live online, Thursdays 5:30-8:20PM) |
| 1 | **4/7**  Lecture 1: Blood Vessels | **4/9**  Blood Vessels |
| 2 | **4/14**  Lecture 2: Lymphatic System  Lecture 3: Resistance and Immunity | **4/16**  Blood Pressure and Immunity |
| 3 | **4/21**  **QUIZ 1 THIS WEEK - OPEN 4/21 - 4/23**  Lecture 4: Respiratory Anatomy  Lecture 5: Respiratory Physiology | **4/23**  Immunity and Respiration |
| 4 | **4/28**  **MIDTERM 1 THIS WEEK - OPEN 4/28 - 4/30**  Lecture 6: Respiratory Regulation and Disease  Lecture 7: Urinary Anatomy | **4/30**  Respiration and Ph, Blood Gases, Cardiopulmonary Function |
| 5 | **5/5**  Lecture 8: Urinary Physiology  Lecture 9: Urinary Disorders | **5/7**  Urinary System |
| 6 | **5/12**  **QUIZ 2 THIS WEEK - OPEN 5/12 - 5/14**  Lecture 10: Fluid and Electrolytes | **5/14**  Body Fluids |
| 7 | **5/19**  Lecture 11: Digestive System | **5/21**  Digestive System |
| 8 | **5/26**  **MIDTERM 2 - OPEN 5/26 - 5/28**  Lecture 12: Metabolism | **5/28**  Metabolism |
| 9 | **6/2**  Lecture 13: Reproductive System | **6/4**  Reproductive System |
| 10 | **6/9**  **FINAL EXAM - OPEN 6/9 - 6/11**  Lecture 14: Contraceptives  Catch-up and review | **6/11**  NO LAB - TAKE YOUR FINAL EXAM DURING THIS TIME IF NEEDED |