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

## **INSTRUCTOR**: Andrea Waite, Ph.D. **LECTURE**: WOH 212, Tuesdays 5:30 – 8:20PM

## **OFFICE**: WOH 220 **LAB**: WOH 216, Thursdays 5:30 – 8:20PM

## **PHONE**: Prefer email **OFFICE HOURS**: Tuesdays 8:30 – 9:00PM

## **EMAIL**: [waitea@linnbenton.edu](mailto:waitea@linnbenton.edu) Thursdays 8:30 – 9:00PM

## **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, in-class activities, 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
* Lebsack’s, BI 233 - Study Guide: Human Anatomy & Physiology
* Modified Mastering A&P, **COURSE ID: MAPWAITESPRING2019**
* Scantrons (5)

## **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, subject to minor changes.

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 at the beginning of class and will not be accepted after the first ten minutes of class**. If you know that you are going to miss a class, you can e-mail me your homework, you can turn it in the day before or you can give it to someone else to bring to class on the day that the assignment is due.

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. Any further makeup exams will be in the form of an essay exam. Once exams have been returned to students, no further makeups will be allowed.** Communication is the key to making certain you have a good opportunity for completing all quizzes and exams.

## **LECTURE**

The group meeting is a very important part of this course. As with the laboratory component, advance preparation and attendance is *essential* for achieving a good grade. There will be a variety of activities occurring during these meetings, including: lecture, discussions, discovery worksheets, active learning activities, and group work. 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 attendance is an important aspect of this course and is essential for a good grade. Material presented in lab will both complement lecture material and represent a portion of each future exam. **You must attend and complete 7 out of 10 the labs to pass the class. If you leave early from lab without completing all activities, you will not get credit for completing the lab, even if the activities do not have any associated points.** On occasion, assignments will be due at the end of the lab period. If you are absent from lab, it will be your responsibility to learn the material presented during that lab period but you will be unable to make up the lab activity.

## **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. 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.

## **INSTRUCTOR WEBSITE & MODIFIED MASTERING A&P**

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

Mastering A&P is an online learning platform that is accessible to students who have purchased the required materials for this course. 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. **COURSE ID: MAPWAITESPRING2019**

## **STUDENT BEHAVIOR**

Although collaboration is important in learning, ultimately each student is responsible for demonstrating individual ability. **Cheating** on exams and copying homework/activities will result in a zero for that activity and may result in further disciplinary action. Exam results will be reviewed in class, but students will not be allowed to keep the exam questions. Any student may ask to review their exams in more detail, but no documentation of specific exam questions is allowed. 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 may face further disciplinary consequences. **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. 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.

* **Cell phones**: As a courtesy to your fellow students and instructor, please turn off all cell phones during class. **You may not talk on, text message, or otherwise use your cell phone in class.** It must be put away while class is in session. Anyone who answers or uses a phone in class will be considered to be creating a disturbance and accordingly, you may be asked to leave. Anyone who needs to have a phone on for emergency purposes must clear it with me prior to class.
* **Computers:** Personal computers will only be permitted for notetaking purposes. Devices being used for any activity unrelated to the course topic for that day will not be tolerated. Students engaging in e-mail, internet surfing/shopping, Facebook, etc. will be immediately required to put the device away.
* **Late policy:** Being timely is important as entering the classroom late is disruptive to the instructor and to your fellow students. If you are late or must leave early, please be as considerate as possible to the instructor and your fellow students. If you are late on an exam or quiz day, you will not be allowed extra time to complete the exam, so please plant to be on time.

## **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 2018**

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| **Week** | **Lecture** (Tuesdays, WOH 212) | **Lab** (Thursdays, WOH 216) |
| 1 | **4/2**  Lecture 1: Blood Vessels | **4/4**  Blood Vessels and Blood Pressure |
| 2 | **4/9**  Lecture 2: Lymphatic System  Lecture 3: Resistance and Immunity | **4/11**  Vaccines and Immunity |
| 3 | **4/16**  **LECTURE QUIZ 1**  Lecture 4: Respiratory Anatomy  Lecture 5: Respiratory Physiology | **4/18**  Respiratory Anatomy |
| 4 | **4/23**  Lecture 6: Respiratory Regulation and Disease | **4/25**  Respiratory Physiology |
| 5 | **4/30**  **MIDTERM 1**  Lecture 7: Urinary Anatomy  Lecture 8: Urinary Physiology | **5/2**  Urinary Anatomy & Kidney Dissection |
| 6 | **5/7**  Lecture 9: Urinary Disorders | **5/9**  Urinalysis |
| 7 | **5/14**  **LECTURE QUIZ 2**  Lecture 10: Fluid and Electrolytes | **5/16**  Body Fluids |
| 8 | **5/21**  Lecture 11: Digestive System | **5/23**  Digestive System |
| 9 | **5/28**  **MIDTERM 2**  Lecture 12: Metabolism | **5/30**  Metabolism |
| 10 | **6/4**  Lecture 13: Reproductive System  Catch-up and review | **6/6**  Heredity and Reproduction |
| 11 | **6/11**  **FINAL EXAM**  **WOH 212**  **5:30PM – 7:20PM** |  |