

**BI 232 – Human Anatomy and Physiology**  
**Section 07 (CRN 34790); Section 08 (CRN 34791)**  
**LBCC, Winter 2021**

**INSTRUCTOR:** Andrea Waite, Ph.D.

**OFFICE:** WOH 220

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*Email is the best way to contact me*

**LECTURE:** Online on-demand

**LAB:** WOH 216; Thursdays, 4:30-6:20PM (Section 07)

Thursdays, 7:00-8:50PM (Section 08)

**OFFICE HOURS:** Mondays, 4:30-5:00PM

Wednesdays 4:30-5:00PM

## COURSE DESCRIPTION

Human Anatomy and Physiology: BI 232 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 the nervous system, the senses, the endocrine system, and the cardiovascular system. Because the body can best be understood as a unified structure, I will emphasize the interrelationships between the body's parts, coordination between cells and organs, control systems, and homeostasis.

Course activities will include lecture, laboratory work, discussions, homework, student talks, exams, and in-class activities including discovery questions and case studies.

## REQUIRED MATERIALS

- Marieb and Hoehn, Anatomy & Physiology, 11<sup>th</sup> edition
- Anatomy & Physiology Custom Lab Manual for LBCC
- Lebsack's, BI 232 - Study Guide: Human Anatomy & Physiology

## COURSE OUTCOMES

By the end of the term, students should be able to...

- 1) Demonstrate knowledge of nervous, endocrine, and cardiovascular 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.

## GRADING

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

### Point Distribution

Lecture quizzes:	2 @ 44pts each =	88
Midterm exams:	2 @ 88pts each =	176
Lab quizzes:	2 @ 10 & 20pts =	30
Lab activities:	=	37
Homework	=	41
Final exam	1 @ 100pts =	<u>100</u>
<b>Total points possible</b>	=	<b>472</b>

### Final Grade Calculation

A = 90 - 100%
B = 80 – 89%
C = 70 – 79%
D = 60 – 69%
F = 59.9% or below

The above distribution of points for lab activities and homework may be slightly different at the end of the term.

The above distribution of points is only approximate and, as with the course schedule, is subject to minor changes. Your grade will be determined by your point standing in the class which will be figured on percentage basis as outlined above.

One additional grade assignment is possible; 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 AND MAKE-UPS

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, two midterm exams, two lab quizzes, a variety of homework and lab assignments, and a comprehensive final exam.

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. Lecture quizzes and midterms will be administered through Moodle, and will be open during specified days and times. If you are unable to take a lecture quiz or midterm during the scheduled window due to a documented reason, you may be permitted to take a make-up exam at the instructor's discretion, **provided that you have contacted or attempted to contact me prior to the exam. Students who do not contact me prior to an exam may not be permitted to take a make-up exam. You will be allowed only one make-up exam or quiz during the term.** If you must make up a lab quiz due to a documented reason, you may be allowed to take the quiz online, at the instructor's discretion, and with prior approval. Communication is the key to making certain you have a good opportunity for completing all quizzes and exams.

## LECTURE

Lecture will be available through Moodle, and is 100% on-demand. There is no set time that you must attend lecture. However, it is expected that you will have viewed the week's video material prior to attending lab. You can expect roughly 3-4 hours of video per week, so plan accordingly. Lectures will be available by Monday morning of the current week at the latest (usually much sooner).

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.

## LABORATORY

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. 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. **In order to receive a passing grade in the course, you must attend and complete a minimum of 7 laboratory sessions.** Successful completion of a lab includes: **arriving no more than 10 minutes late, working on the assigned activities, staying until dismissed by the instructor, and turning in assigned activities.** If you must miss a lab quiz, please make arrangements **prior to the scheduled date**. It may be possible for you to make up the quiz online.

## LATE WORK POLICY

To give you experience and perspective on material presented in class, a variety of prelab, homework, and lab assignments will be due each week. Unless otherwise noted, **all assignments must be uploaded through Moodle, and are due by the date and time specified on Moodle. Assignments will not be accepted late.** If you are struggling to upload your assignments on time, you may email it to me. Unless otherwise noted, prelab and homework assignments are due by noon on Thursdays, and lab assignments are due by 11:59PM on Thursdays.

## MOODLE

My course Moodle page will be used as a means for distributing materials this course. Lecture videos and materials, supplemental materials, and assignments may be posted. As such, it is the responsibility of the student to check the website frequently for updated materials.

## MODIFIED MASTERING A&P

Modified Mastering A&P is an online learning platform that is accessible to students who are enrolled in the 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. You can access Mastering at any point through the link on the course Moodle page.

## 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.

## LECTURE QUIZ AND EXAM FORMAT

Lecture quizzes, midterms, and the final exam will consist entirely of multiple choice questions. These assessments will be administered through Moodle, and it is important that you understand the format in order to be successful. **Questions must be navigated in order.** You will not be permitted to skip a question and return to it later. If you navigate away from a question without answering it, it will count as a missed question. Be sure to answer each question before you move on. Additionally, **all quizzes and exams are closed note and closed book, and you are expected to work individually.** Your answers on the quizzes and tests must be your own. Suspicion of academic dishonesty will be reported to the dean, and to the VP of academic affairs. Conduct yourself with integrity. If you wish to review your quizzes or exams after they are over, you may do so by meeting me in office hours.

## EXTRA CREDIT POLICY

There will be a few opportunities for extra credit offered throughout the term. There are extra credit points included on every quiz and exam. There will be one extra credit assignment offered (usually around week 7), and a few points available in the endocrine talk. You may receive extra credit by attending up to two classes through Academic Coaching. This is the entirety of the extra credit that will be offered during the term. I will not offer additional extra credit at the end of the term, and I do not negotiate final grades.

## 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.** **Plagiarism** is 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 or answers 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 a phone in class will be considered to be creating a disturbance and treated accordingly. If you repeatedly leave class to answer/place a call/text message, you may be asked to leave for the rest of the day. Anyone who needs to have a phone on (emergency only) 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. In order to receive credit for a lab, you must arrive no more than 10 minutes late, so please make every effort to be on time. This is especially important on lab quiz days, as students rotate between stations. Students demonstrating disruptive behavior will be asked to leave.

## LEARNING ENVIRONMENT

I value the learning experience of every student in my classroom. I ask that we do not tolerate any disrespectful behavior towards anyone else in the classroom, including students, the instructor, and guests. If you have a problem or witness anything in class, please let me know. Maintaining a respectful and peaceful classroom atmosphere is an important component to facilitating your success as students.

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse.

## DISABILITY SERVICES AND EMERGENCY PLANNING

If you have an emergency medical condition, need special arrangements to evacuate campus, or have a documented disability, please meet with me no later than the first week of the term. We can meet to discuss your needs and review your CFAR accommodation letter. If you have a documented disability that will impact you at LBCC and you have yet to seek accommodations, contact the Center for Accessibility Resources (CFAR) to document your disability. Only students who document a disability and present an accommodation letter to me are entitled to academic accommodation. Each term, when you register, at least 2-3 weeks prior to the start of a term, submit your "Request for Accommodations" form to CFAR. During week 1, pick up letters for your instructors and deliver them in person to each instructor during office hours or by appointment. CFAR may be reached from any LBCC campus or center by email to [ods@linnbenton.edu](mailto:ods@linnbenton.edu) or by calling (541) 917-4789.

## INCLEMENT WEATHER POLICY

If LBCC campus is open, class will be held as scheduled. Only if the campus is closed will an exam be postponed, and this will likely be made up on the next scheduled class date following the closure. No special exceptions will be made for those who could not make it to class - be prepared for alternate methods. You may visit the college website for closure information. Be sure that your contact information is updated with the college

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Winter 2021**

TENTATIVE SCHEDULE

<b>Week</b>	<b>Lecture</b> (Online, on-demand)	<b>Lab</b> (Thursdays, WOH 216)
1	<b>1/4</b> Introduction Video Lecture 1: Neurons Lecture 2: Neural Integration	<b>1/7</b> Neurons
2	<b>1/11</b> Lecture 3: The Brain Lecture 4: The Meninges and CSF Lecture 5: The Spinal Cord	<b>1/14</b> Brain Anatomy
3	<b>1/18</b> <b>LECTURE QUIZ 1</b> Lecture 6: CNS Disorders Lecture 7: Cranial and Spinal Nerves Lecture 8: Spinal Reflexes	<b>1/21</b> <b>BRAIN ANATOMY QUIZ</b> Spinal cord and reflexes
4	<b>1/25</b> Lecture 9: PNS Lecture 10: Vision	<b>1/28</b> Vision & ANS
5	<b>2/1</b> <b>MIDTERM 1</b> Lecture 11: Hearing & Equilibrium Lecture 12: Olfaction and Gustation	<b>2/4</b> Hearing & Equilibrium
6	<b>2/8</b> Lecture 13: Endocrine System	<b>2/11</b> General Senses
7	<b>2/15</b> <b>LECTURE QUIZ 2</b> Lecture 13: Endocrine System (continued) Lecture 14: Blood	<b>2/18</b> <b>ENDOCRINE TALKS - ONLINE LAB</b> Log in to Zoom using link on Moodle
8	<b>2/22</b> Lecture 15: Cardiovascular Anatomy	<b>2/25</b> Blood
9	<b>3/1</b> <b>MIDTERM 2</b> Lecture 16: Cardiovascular Physiology Lecture 17: Cardiovascular Disease	<b>3/4</b> <b>HEART LAB QUIZ</b> Heart dissection
10	<b>3/8</b> No new lecture this week	<b>3/11</b> Cardiovascular disease
11	<b>3/15</b> <b>FINAL EXAM</b>	