

## BI 232 – Human Anatomy and Physiology

CRN 43916

LBCC, Spring 2019

**INSTRUCTOR:** Sherry Farley, PhD, RD

**OFFICE:** WOH 220 (or WHO 216)

**EMAIL:** [farleys@linnbenton.edu](mailto:farleys@linnbenton.edu)

*Email is the best way to contact me*

**LECTURE:** WOH 216; Mondays 9-11:50 AM

**LAB:** WOH 216; Wednesdays 9-11:50 AM

**OFFICE HOURS:** 15 minutes before and after classes

### 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 discover 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*
- 5 Scantron testing forms

### 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:	10 @ 3-4 pts =	30-36
Class assignments	8 @ 3-4 pts =	26-34
Final exam	1 @ 100pts =	<u>100</u>
<b>Total points possible</b>	<b>=</b>	<b>~460</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. Most assignments will take place in the classroom, although some may be given as homework. **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. Electronically submitted assignments must have a time stamp no later than 10 minutes after the start of class on the due date.

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 for any reason you are unable to take a lecture quiz or midterm at the scheduled time, you will be given a make-up exam **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.** If you must make up a lab quiz, you may be allowed to take the quiz with another lab section, at that instructor's discretion, and with prior approval. However, you may not be able to make up lab quizzes if there is not space for you. Communication is the key to making certain you have a good opportunity for completing all quizzes and exams.

## LECTURE (Mondays)

The group lecture meeting is a *very* important part of this course, and the most successful students are the ones who consistently attend lecture. 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, 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 before we meet.

Attendance will be taken each lecture day to show participation in class assignments/activities (3 to 4 points per class period). To earn all points possible for the day, you must be present the entire class period. If you miss class, I will post the activities after each Monday lecture (on Moodle) and you can make up 1-3 points (based on effort) by completing and turning in the listed activities **within one week** of missing class (either email me the assignments or bring to class). If you need to leave class early/come in late, make sure you touch base with me to earn partial points for the day.

At the end of each of my lectures you will find a study guide that lists key concepts you need to learn for the exam (which is everything included in the lectures). Also, the "Learning Objectives", located at the beginning of each section in the Study Guide packet, 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 (Wednesdays)

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; thus you will lose 3 to 4 points for that lab day. **In order to receive a passing grade in the course, you must attend and complete a minimum of 7 laboratory sessions.** If you must miss a lab quiz it may be possible for you to make up the quiz only in another laboratory section, at the discretion of the other instructor, but only if it is planned prior to the lab quiz.

## MOODLE WEBSITE

Moodle will be used as a means for distributing materials for this course. Lecture materials, supplemental materials, and assignments may be posted here, as well as exam grades. 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 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.

## 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.
- **Come to classes, focused, ready to learn**

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.

## 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. If you are late to class, please quietly find a seat in the back of the class. This is especially important on exam days. **Students late on exam days may not be able to finish their exams since lecture will follow.** Students demonstrating disruptive behavior will be asked to leave. Likewise, leaving class early is a disruptive behavior so plan to stay for the entirety of the class session. If you must excuse yourself early, please sit near the back of the classroom. We will have a break midway through the lecture for bathroom purposes.

## 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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**TENTATIVE SCHEDULE**

<b>Week</b>	<b>Lecture</b> (Mondays, WOH 216)	<b>Lab</b> (Wednesdays, WOH 216)
1	<b>4/1</b> No class	<b>4/3</b> Lecture 1: Neurons Lecture 2: Neural Integration
2	<b>4/8</b> Lecture 3: The Brain (continued) Lecture 4: The Meninges and CSF Lecture 5: The Spinal Cord Lecture 6: CNS Disorders	<b>4/10</b> Brain Anatomy
3	<b>4/15</b> <b>LECTURE QUIZ 1</b> Lecture 7: Cranial and Spinal Nerves Lecture 8: Spinal Reflexes Lecture 9: PNS	<b>4/17</b> <b>BRAIN ANATOMY QUIZ</b> Spinal cord and reflexes
4	<b>4/22</b> Lecture 10: Vision Lecture 11: Hearing & Equilibrium	<b>4/24</b> Vision & ANS
5	<b>4/29</b> <b>MIDTERM 1</b> Lecture 12: Olfaction and Gustation	<b>5/1</b> Hearing & Equilibrium
6	<b>5/6</b> Lecture 13: Endocrine System	<b>5/8</b> General Senses
7	<b>5/13</b> <b>LECTURE QUIZ 2</b> Lecture 13: Endocrine System (continued) Lecture 14: Blood	<b>5/15</b> <b>ENDOCRINE TALKS</b>
8	<b>5/20</b> Lecture 14: Blood (continued) Lecture 15: Cardiovascular Anatomy	<b>5/22</b> Blood
9	<b>5/27</b> Memorial Day NO CLASS	<b>5/29</b> <b>HEART LAB QUIZ</b> Heart dissection
10	<b>6/3</b> <b>MIDTERM 2</b> Lecture 16: Cardiovascular Physiology	<b>6/5</b> Cardiovascular disease
11	<b>6/10 (Monday)</b> <b>FINAL EXAM</b> WOH 216 10-11:50 AM	