

## HUMAN ANATOMY & PHYSIOLOGY BI 233 – FALL 2020

INSTRUCTOR: Steven Skarda

CLASS: On-Line

PHONE: 917-4654

LAB: WOH-216

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Class Website: MOODLE

OFFICE HOURS: Please feel free to email me and/or talk with me before/after lab

CRN: 21117 T 9-11

CRN: 21840 T 11:30- 1:30

CRN: 27600 T 2 - 4

**COURSE DESCRIPTION:** BI 233, is part of a three-term sequence. We cover the vascular, respiratory, urinary, reproductive, management of fluids and electrolytes, as well as the basis of metabolism. The body is a very complex system and everything is interrelated; we will break down processes into topics, but keep in mind the interrelationships: communication between cells and organs, control systems, and homeostasis.

Course activities (In-person lab and on-line) include: lecture, laboratory work, discussions, homework, in class activities and case studies, quizzes and exams. Quizzes and midterms will be multiple-choice questions. Some questions test your memory of structures and functions, while other will require an application of your knowledge to unique situations and problems.

**REQUIRED TEXT:** Marieb, Human Anatomy and Physiology, 11<sup>th</sup> ed.  
Marieb, Human Anatomy and Physiology Lab Manual  
LBCC Class packet

**GRADING:** Points are from a combination of lab and lecture exams, and lab exercises.  
Tentative point distribution:

Quizzes 2 @ 25 questions each	100 pts.
Midterms 2 @ 50 questions each	200 pts.
Final Exam	100 pts
Homework/Lab/Mastering A&P	<u>100pts</u>
	500pts

## You must successfully complete a minimum 7 labs to pass BI233.'

Course grade will be based on the following;

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

### CLASS ATTENDANCE/MAKE-UPS

**Attending all LABS are essential.** It is your responsibility to make certain travel plans do not conflict with the course calendar. Conflicts with due dates or exams do not excuse you from knowing critical course material.

Do NOT ask me to “round-up” your grade, consider your “special circumstance(s)” (unless backed by LBCC policies), or offer you additional extra credit to boost your grade.

If you are worried about your grade, be proactive and contact me for help and use available resource to help you achieve the grade you want. Simply sending your instructor an email, putting material under my door or phone message does not then make it my responsibility to follow-up with you.

**Assignments and Exam material** will be from sections of the textbook and lecture material covered in class. **MAKE-UP TESTS** will NOT be given after the scheduled date for an exam except for reasons of illness or emergency beyond the student's control. **CONTACT ME BEFORE TEST TIME IF ABSENCE IS UNAVOIDABLE.** If you are unable to take an exam at the scheduled time the exam

points will be added to the final exam. Simply sending your instructor an email does not then make it their responsibility to follow-up with you as the student.

**Mastering A&P** This is a tool to help you understand the course material and be successful in class and your chosen career as a Professional Health Care Provider. The link is found on the MOODLE page.

**Moodle** is used for communication and facilitating success in this course. Lecture material, supplemental material and homework not in the class packet may be posted here. As such, it is the student's responsibility to access the Moodle site and update your email address to receive any class emails.

### **Laboratory**

Laboratory attendance is an important aspect of the course and is essential for a good grade. Per Department policy (and common sense) you must attend 7 of the 10 labs to pass class. 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, and you will be unable to make up the lab activity. If you must miss a lab quiz, please make arrangements with the instructor prior to the scheduled date

### **Study Suggestions**

**There are many study strategies** that can help you be successful. These include the following: **Rewrite class notes** each day so you can gauge your understanding and ask questions on material you do not understand the next class, **keep up** with the information presented in class by **reviewing** a little each day, **reading your textbook** when there are areas that we have covered in class that are unclear to you, and **turning assigned work in on time**. Read your textbook prior to lecture, and then re-read areas that we covered in class that are unclear to you. 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. Use the study group to check your knowledge, quiz each other, and ask each other about points you don't understand and help each other learn difficult material. It is important for you to find out what you are unclear on and what you don't understand before a quiz or exam; the study group allows you to do this in a non-threatening environment. Either you or I can facilitate formation of study groups.

**STUDENT BEHAVIOR:** Although collaboration is important in learning, ultimately each student is responsible for demonstrating individual ability. Cheating on exams and copying homework/lab activity reports will result in a zero for that activity and may result in further disciplinary action. Likewise, attendance and participation are an essential part of the college experience, and any behavior that interferes with other student's learning or personal safety may result in further disciplinary action. The basis for determining behavior and expectations in this class is outlined in the LBCC Student Handbook.

Students who are using cell phones, texting, or using computers for non-class related activities will be asked to leave regardless of the class activity at that time. This may result in the forfeiture of quiz scores, extra credit or in-class earned points. Use of electronic devices not related to class business is distracting and disrespectful to your fellow students and the instructor. If you leave class to answer/place a call/text message, you will be asked to leave for the rest of the day. Anyone who needs to have a phone on (emergency only) must clear it with the instructor.

LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in the class, please talk to your instructor as soon as possible

to discuss your needs. If you believe you may need accommodations but are not yet registered with CFAR, please visit the [CFAR Website](#) for steps on how to apply for services or call (541) 917-4789.

**BI 233 Human Anatomy and Physiology Tentative schedule of events<sup>1\*</sup>**

<b>Week 1 Sept. 28</b>	CH 19 - Blood Vessels Structure & Function Physiology of Circulation <b>Lab</b> Blood Vessels and Blood Pressure	pg 706 - 714 pg 714 - 718 Exer. 32 & 33
<b>Week 2 Oct. 5</b>	Tissue Perfusion CH 20 - Lymphatic System CH 21 – Immune – Innate/adaptive defenses <b>Lab</b> Vaccines and Immunity	pg 718-735 pg 766 - 777 pg 782-790/790-801
<b>Week 3 Oct. 12</b>	CH 21 – Cell-mediated response <b>QUIZ #1 Wednesday Oct.14th</b> CH 22 – Respiratory System <b>Lab</b> Immune Disorders	pg 801-814  pg 818-834 pg 808-814
<b>Week 4 Oct. 19</b>	Respiratory Physiology Transport of gasses <b>Lab</b> Respiratory Physiology	pg 834-847 pg 847-852 Exer. 36
<b>Week 5 Oct. 26</b>	Respiratory Control <b>Midterm #1 – Wednesday Oct. 28<sup>th</sup></b> CH – 25 Urinary System <b>Lab</b> Respiratory Disease	pg 853-858  pg 974-983 pg 858-860 Exer. 37A
<b>Week 6 Nov. 2</b>	Urine Formation Renal clearance, Composition & Micturition <b>Lab</b> Urinalysis	pg 983-1000 pg 1000-1007 Exer.41
<b>Week7 Nov. 9</b>	<b>LBCC Campus closed Wednesday Nov 11<sup>th</sup></b>  CH 26 – Body Fluids <b>Lab</b> Electrolyte Balance - Acid/Base and pH Abnorm <b>Quiz #2 – Wednesday Nov. 11<sup>th</sup></b>	pg 1013-1019 pg 1019-1026 pg 1026-1035
<b>Week 8 Nov. 16</b>	CH 23-Digestive System - Anatomy Mouth to the uh, uh well, the end - Uranus <b>Lab</b> Digestive System & Nutrition	pg 868 - 898 pg 868 - 911
<b>Week 9 Nov. 23</b>	Physiology of Dig & Absorp <b>Midterm # 2 – Wednesday the Nov. 25<sup>th</sup></b> <b>Lab</b> Metabolism Selected parts of CH 24	pg 912- 918
<b>Week 10</b>	CH 27&28 – Reproductive System	



<sup>1\*</sup> This is a tentative schedule of class events and is subject to change – attend class to keep current!

**Nov. 30**    ***Lab***    Ovarian cycle and Embryonic Development  
CH 29 Heredity (Review of genetics)

**Final Exam Wednesday, Dec 9<sup>th</sup>      10:00 – 12:00!**