

Laney College

Course Syllabus for Biology 20B - Human Anatomy & Physiology Spring Semester 2015

Instructor: Eric Katz, MS Biology

Scheduled Time & Room: Lecture: M/W 1:00pm until 2:50pm in Room B210

Lab: M/W 3:00pm until 4:15pm Room B207

Instructor's email: ekatz@peralta.edu

Office Hours: M/W By Appointment; before & after classes

Office Location: B 200

Course Description:

Biology 20B is a 5 unit, one semester course in human anatomy & physiology. This course is designed to articulate with the CSU and UC course work. Structure and function of the major organ systems of the human body will be addressed through gross anatomy, microscopic anatomy and physiology. Topics to be covered are the nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproductive systems as well as selected human diseases. Laboratory work will include dissection of mammalian organs, work with dissected human cadavers, use of microscopes, figures/charts, three-dimensional models, physiological experiments and demonstrations, and computer simulations.

Required Texts & Equipment:

Human Anatomy & Physiology, Marieb, 9th Edition.

Human Anatomy & Physiology Lab Manual Main Version, Marieb, 9th Edition Updated.

Class conduct, Academic Integrity, Etc:

It is my responsibility to ensure that all students enjoy a supportive, respectful learning environment. I have a zero-tolerance policy toward any speech or behavior that disrupts the learning environment or prevents any student from achieving their educational goals. This includes, but is not limited to, disruptive behavior in the classroom such as speaking over the instructor, interrupting other students, monopolizing the instructor's attention such that other students cannot be served, disrespectful, demeaning, threatening or discriminatory remarks of any kind, and any form of coercive behavior toward the instructor or other students. Any student who engages in such speech or behavior will be told to leave the class for the day, and if the behavior occurs a second time the student will be referred to the Dean of Science for disciplinary action. Further, Please turn off cell phones and limit class noise, as it is distracting to the other students as well as the instructor. No video recording or photos of lecture or lab materials is permitted. Penalties may be enforced upon the student for these offenses. You, the student, are responsible for adhering to the Code of Student Conduct outlined in the Laney College Catalog.

Cheating will not be tolerated. Cheating includes attempting to copy (or copying) any information from others quizzes, lab practicals, exams or lab notebook information. Also, unauthorized notes or writing on scantrons, erasers, calculators etc. *Please do not talk during exams for any reason.* Any unauthorized use or suspicious cell phone activity during testing may result in an immediate "F" for the test. Further punishment for any of the above noted infractions may range from an "F" in the course and/or referral to the Dean of the College. See Department Policy if you have questions.

Testing Procedures:

There will be three 100 question, lecture tests that will cover our lecture material. The format of these will be multiple-choice, matching, true/false and diagrams. There will be two 50 question lab practical tests that will cover the laboratory material that has been completed during the lab exercises and experiments. Lab practical tests are multiple-choice questions and there will be multiple stations throughout the room with 2 questions at each station. You will have 2 minutes at each station in order to answer the questions. There is no going back to any station or reviewing a previous station. The material will be based upon differentiation of cells/tissue, organs or parts of organs and the physiological concepts developed in the computer labs. **There is no late entry into lab exams and there will be no make up exams if you miss a test.**

Lab Assignments:

There will be 10 sets of lab exercises that will be handed in that will include individual and group work. These assignments will total 50 points that will be earned through in completion of the 10 in lab assignments. **Lab assignments are due at the beginning of the next lab session.**

Participation/Effort:

Participation grades are broken down into 25 lecture and lab points. Points are given based on effort put forth by each student, attendance, preparedness and respect shown to other students and the classroom. This includes being respectful of the rules for the classroom and the lab and keeping up with your own educational needs and taking personal responsibility for your own grade. You must keep a clean lab area and common space, as well as keeping all equipment in its proper place and in good working order. During the first weeks of class, you must check with me before you return the microscope to be sure it is going to be put away correctly. You will lose points for not putting away models, slides, microscopes, or putting any of those away incorrectly.

Grade Calculation:

In this class your grade is something you earn through testing and assignments. Your grade is calculated based on your performance on the following:

Lecture exams (3 @ 100 pts each)	300 pts
Laboratory exams (2 @ 50 pts each)	100 pts
Lab Assignments (10 @ 5 pts each)	50 pts
Participation/Effort	50 pts
TOTAL:	500 pts

Final grades are given on a straight scale: A = 90-100%

B = 80-89

C = 70-79

D = 60-69

F= 59% and below

Student Learning Outcomes:

1. Construct & maintain an organized lab notebook with the information conducted in each lab period.
2. Be proficient at the use & care of microscopes & other equipment as shown in laboratory class time.
3. Dissect mammalian organs & identify parts during laboratory.
4. Define & correctly use terminology for basic functions of the human body, in discussions & on exams.
5. Recall information quickly (i.e. identify major bones, muscles and organs) through practical exams.
6. Be proficient at taking multiple-choice exams in preparation for professional level & state board exams.
7. Display knowledge of word roots & formulate educated guesses on an unknown words on exams.
8. Analyze a system disorder or pathology & ascertain how the disorder affects the body through exam essays.
9. Analyze current medical information & latest research in class discussions.
10. Differentiate between tissue types using understanding of function, not just memorization, on lab practicals.

11. Explain structure & function of integumentary, skeletal, muscular & nervous systems on assignments & exams.

Lab Schedule for Biology 20B - Human Anatomy & Physiology

<u>Date</u>	<u>Lecture</u>	<u>Lab Exercise</u>
Jan 19	<i>Martin Luther King Day – No Class or Lab</i>	
Jan 21	CH 15	Exercise 24 – Special Senses - Vision
Jan 26	CH 15	Exercise 25 – Special Senses – Hearing & Equilibrium
Jan 28	CH 16	Exercise 26 – Special Senses – Olfaction & Taste
Feb 2	CH 16	Exercise 27 – Functional Anatomy of the Endocrine Glands PhysioEx 4 – Endocrine System Physiology
Feb 4	CH 17	Exercise 29 – Blood
Feb 9	CH 18	PhysioEx 11 – Blood Analysis
Feb 11	CH 18/19	Exercise 30 – Anatomy of the Heart
Feb 16	<i>President's Day – No Class or Lab</i>	
Feb 18	<i>Lecture Test 1 (Ch. 15-17; In regular class room 1:00-3:00pm)</i>	
Feb 23	CH 19	Exercise 32 – Anatomy of Blood Vessels
Feb 25	CH 20	Exercise 33 – Blood Pressure & Pulse Determinations
Mar 2	CH 21	PhysioEx 5 – Cardiovascular Dynamics
Mar 4	CH 21	PhysioEx 6 – Cardiovascular Physiology
Mar 9	CH 21/22	Exercise 35 – The Lymphatic System & Immune Response
Mar 11	CH 22	<i>Review Day</i>
Mar 16	CH 22	Exercise 36 – Anatomy of the Respiratory System
Mar 18	CH 23	<i>Lab Practical 1 (Exercise 24 – 35; in lab room 3:00-4:15pm)</i>
Mar 23	CH 23	PhysioEx 7 – Respiratory System Mechanics
Mar 25	<i>Lecture Test 2 (Ch. 18-22; In regular class room 1:00-3:00pm)</i>	
Mar 30	<i>SPRING RECESS – No Class or Lab</i>	
Apr 1	<i>SPRING RECESS – No Class or Lab</i>	
Apr 6	CH 24	Exercise 38 – Anatomy of the Digestive System
Apr 8	CH 24	PhysioEx 8 – Chemical & Physical Processes of Digestion
Apr 13	CH 24/25	Exercise 40 – Anatomy of the Urinary System
Apr 15	CH 25	PhysioEx 9 – Renal System Physiology
Apr 20	CH 25	Exercise 41 – Urinalysis PhysioEx 10 – Acid - Base Balance
Apr 22	CH 26	Exercise 42 – Anatomy of the Reproductive System
Apr 27	CH 26	Exercise 43 – Physiology of Reproduction
Apr 29	CH 26/27	Exercise 44 – Survey of Embryonic Development
May 4	CH 27	Exercise 45 – Principles of Heredity
May 6	CH 27/28	Exercise 46 – Surface Anatomy Roundup
May 11	CH 28	<i>Review Day</i>
May 13	CH 24 (If time permits)	<i>Lab Practical 2 (Exercise 36 – 46; in lab room 3:00-4:15pm)</i>
May 18	<i>Lecture Test 3 (Ch. 23-28; In regular class room 1:00-3:00pm)</i>	

******This schedule is tentative and may change if necessary******