

Biology 151: Human Anatomy and Physiology

Chaminade University of Honolulu

Fall Evening 2008

Section #151-30, 151L-30

10/6/08 - 12/18/08

Instructor: Dr. Allan S. Tsutsui, D.C.

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Cell: (808)542-0643 (leave a message)

Office Hours: By appointment

Lecture class meeting and time: Thursday evenings 1730 - 2140, Tripler AMC, Bldg. 102

Laboratory class meeting and time: Saturdays 1230 - 1640, Chaminade Main Campus, HL3

Required Text: Martini & Nath, Fundamentals of Anatomy & Physiology

Course Description: A comprehensive first semester of human anatomy and physiology course for health/medical science programs. Biology 152 provides the second semester and concludes the required knowledge for the 100-level course.

Learning objective: Upon completion of this course, the student should be equipped with a comprehensive understanding of the general principles of human anatomy and physiology. The student should have both a conceptual and applicable knowledge of the connections that exist between the structure and function of the human body.

Academic honesty: Dishonest behavior will not be accepted under any circumstances. Cheating results in an automatic failing grade.

Withdrawal policy: Please consult your program coordinators for assistance regarding withdrawal from this course.

Lecture assignments and examination schedule:

<u>WK</u>	<u>DATE</u>	<u>CHAPTERS & SUBJECTS</u>	<u>NOTES & ASSIGNMENTS</u>
1	10/9/08	1. Intro, 2. Chemical level of organization	
2	10/16/08	3. Cellular orgnzn. 4. Tissue organization	Quiz 1 (Q1)
3	10/23/08	5. Integumentary 6. Osseous tissue & bone	Q2, Current Issue due, TP topic due
4	10/30/08	7. Axial skeleton 8. Appendicular skeleton	Q3, Review for midterm
5	11/6/08	8. Appendicular skeleton 9. Articulations	Midterm Exam (Ch 1-7), lecture
6	11/13/08	10. Muscle tissue 11. Muscular system	Q4, CI due
7	11/20/08	11. Muscular system 12. Neural Tissue	Q5, CI due
8	12/4/08	13. Spinal cord & Nerves 14. Brain, cranial N.	Q6, CI due
9	12/11/08	14. Brain & Cranial Nerves 15. Integration I	Q7, Review for final
10	12/18/08		Final Exam; Comprehensive with emphasis on Ch. 8 -15

Lecture quizzes will be given at the beginning of the lecture period covering the previous week's lecture.

It would be of enormous benefit to students to read the chapters BEFORE the lecture. For example, the student should read chapters 3 & 4 before the 10/16 lecture.

Class participation is required. There is a possibility of earning up to 75 points for asking thought-provoking questions and volunteering answers during lecture.

Current Issue paper (CI): The purpose of these assignments is to introduce the student to current issues in the world of anatomy and physiology. The topics for the paper are extremely broad and general to encourage the student to look at topics that are of interest to the student. **A computer with internet access is required.** One or more students may be called upon to present their topics to the class.

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Term Paper (TP): Topics must be submitted by the third week of lecture or lab.

Lecture points:

<u>Category</u>	<u>Number</u>	<u>Points possible for each</u>	<u>Total points possible</u>
Quizzes	7	25	175
Midterm Exam	1	150	150
Final Exam	1	250	250
Term Paper	1	150	150
Current Issue Papers	4	25	100
Participation	1	75	75
TOTAL LECTURE POINTS POSSIBLE:			900

At the instructor's discretion, the lowest quiz grade MAY be dropped, which could affect the total points possible.

Lecture and Laboratory grades will be distributed on a straight percentage basis as follows: 100%-90%=A, 89%-80%=B, 79%-70%=C, 69%-60%=D, below 60% will receive a failing grade.

Each student should monitor their grade on a weekly basis, and come to the instructor if they are having trouble earning a passing grade.

Even though the lecture and laboratory are connected with regard to content, the lecture grade is independent and separate from the laboratory grade.

Laboratory assignments and examination schedule:

<u>WK</u>	<u>DATE</u>	<u>TOPICS</u>	<u>NOTES</u>
1	10/11/08	Lab and safety guidelines, quadrant model	
2	10/18/08	Cell models/drawings, tissue slides/drawings	Quiz 1
3	10/25/08	Skin models, bone slides/drawings	Q2, Lab write up due
4	11/1/08	Skeletons, free study to review for midterm exam	Q3, LRU 2
5	11/8/08	Bones	Lab midterm, LRU 3
6	11/15/08	Muscle tissue slides, muscle locating	Q4, LRU 4
7	11/22/08	Muscle locating, nerve tissue	Q5, LRU 5
8	11/29/08	HUMAN BODIES EXHIBIT at Ala Moana Center	LRU 6
9	12/6/08	Spinal cord and nerves, brain models, free review	Q6, LRU 7
10	12/13/08	Lab final exam	

Lab quizzes will be given at the beginning of the lab period, covering material from the previous week's lab session.

Laboratory Midterm Exam is a practical exam covering material from the beginning of the course up through the axial skeleton.

Laboratory Final Exam is also a practical exam covering material from the midterm (bones) through the last laboratory session.

Laboratory Notebook: You will need a 3-ring binder that will hold all of your laboratory notes, assignments, and write ups. They will be collected before the midterm exam and final exam and returned after each exam.

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Laboratory write ups (LRU): You will need to submit a 1-page, brief write up at the beginning of the next LECTURE following each lab session (except for the final exam day) about the previous lab session (excluding the first lab session). They will be returned at the end of the same lecture.

Laboratory points:

<u>Category</u>	<u>Number</u>	<u>Points possible for each</u>	<u>Total points possible</u>
Lab quizzes	6	25	150
Lab midterm	1	150	150
Lab final	1	225	225
Lab Notebook	1	50	50
Lab write ups	7	25	175
TOTAL LABORATORY POINTS POSSIBLE:			800

GENERAL NOTICES FOR BOTH LECTURE AND LAB

1. Full attendance is expected from every student; present or not, each individual student is responsible for the material presented in class as well as the material in the chapters of the textbook.
2. I am required to report to the Office of the Associate Provost and the Registrar when a student is absent from two lecture or lab sessions. Absences are considered unexcused. Tardies can be considered unexcused absences, depending on how late the student reports to class. Excused absences will be considered after a discussion with the instructor has taken place. It would be to your benefit to inform me before class that you will be absent. It is the sole discretion of the instructor whether or not to drop a student from the class after three (3) lecture or laboratory absences (excused or unexcused).
3. There will not be lecture information provided to students if they miss class. If a student misses too many lectures, their participation grade will be affected.
4. Do not count on any handout information from the instructor. Take good notes: I don't mind repeating important information so you can get it down in your notes. Don't be afraid to ask for clarification on topics that are unclear to you. The only stupid question is the one that doesn't get asked, especially when there is more than one student thinking the same question.
5. Radios, MP3 players, iPods, tape players, televisions, and earphones/headphones/Bluetooths are not allowed in class. Cell phones and pagers must be switched to "vibrate only" mode while in the classroom or laboratory. Answering your phone during class is prohibited and is grounds for exclusion from that class session with an unexcused absence except under special circumstances that were discussed beforehand with the instructor.
6. Calculators, dictionaries, and talking are prohibited during quizzes and examinations.
7. No pets are allowed in class. Exceptions will be made for seeing-eye dogs.
8. Close-toed shoes and lab coats are required in the laboratory. Any student wearing slippers or flip-flops or who does not have their lab coat will be excluded from that laboratory session and counted as absent..
9. Consult your *Student Handbook* for all other policies and student responsibilities. You are expected to have read your *Handbook*, so "I didn't know that" will not be a valid excuse.
10. Smoking is prohibited in either lecture or laboratory.
11. You are not entitled to make up any work, but I will consider the possibility after discussion.

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LABORATORY WARNING AND DISCLOSURE

Dissection material used in this lab may have been fixed with an aqueous solution of formaldehyde, which is an irritant of the eyes, upper respiratory tract, and skin, is tumorigenic in rats, and is a Group B1 carcinogen. Formalin is toxic. Drinking formaldehyde is fatal. Therefore, during any dissection lab:

1. Gloves should be worn to protect the skin.
2. Glasses should be worn to protect the eyes.
3. Spills and splashes should be immediately and thoroughly wiped up and rinsed off with water.
4. The specimen should be frequently rinsed with water. Rinsing also reduces desiccation of the specimen.
5. Available fans should be set on "high" speed, and all windows and door kept open for ventilation.
6. Any student with chronic, defined respiratory problems should report to the instructor.

GENERIC LABORATORY RULES

1. Generally, each student is expected to act in a mature and responsible manner in the laboratory.
2. Laboratory equipment is to be treated with care; please report any malfunction or breakage of the equipment or supplies.
3. Keep your work area clean. All spills and debris are to be removed before leaving the laboratory.
4. Preservative fluids can stain and disodor your clothes. An old shirt or apron is recommended, even though you are required to wear a lab coat.

SAFETY RULES

1. Know the location of the first aid kit and report any injury or chemical reaction IMMEDIATELY to the instructor.
2. Dissection instruments are to be used with care and control; do not endanger yourself or your lab partner with inattention or horseplay.
3. All incisions and cuts are to be made AWAY from you and your lab partner's body or appendages. Whenever possible, cut downward into the pad liner on the bottom of the dissecting tray or pan.
4. Do not eat or drink anything in the laboratory, and smoking is prohibited. If you go outside to eat/drink/smoke, be aware of contact contamination.
5. Wear gloves when handling any specimen. Wash immediately if preservatives come in contact with your skin.

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CURRENT ISSUE REPORT FORM

Directions:

For each topic, follow the steps below:

1. Do a web search for the chosen topic. These are intended to be broad topics to allow flexibility of choice of a topic that interests you. The textbook or the internet might give you ideas
2. Provide the information requested below.
3. Provide the sites where you obtained the information.
4. Write a paragraph summarizing the issue that is at least 50 words but no more than 200 words.

Topic: _____

Subtopic: _____

Website: _____

Summarize the issue:

List 6 learning points:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Why is this topic relevant to the study of human anatomy and physiology?

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TERM PAPER

Requirements:

1. **Topic:** Pick a topic that interests you. The topic must be relevant to studying human anatomy and physiology. Browse through science magazines and/or scientific web sites to get ideas. Two good sites are: <http://ncbi.nlm.nih.gov> and <http://cdc.org>

2. **Report: The paper should have the following sections:**
 - a. Introduction
 - b. Summary
 - c. How this topic is relevant to human anatomy and physiology.
 - d. Why you chose this topic.
 - e. Sources/bibliography list (journals/magazines/books, etc.). Web sites must be approved by the instructor.

3. **Writing criteria:** Double-spaced, spelling and grammar-checked, and typed in either 10 or 12 point font. The paper should be a total of 5 or 6 pages, not including the cover page.

4. **Due date:** 11 December 2008

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LABORATORY ASSIGNMENT WRITE UP GUIDELINES

You are responsible for submitting a written report for each lab session. They are due at the beginning of the next day of LECTURE, will be returned by the end of the same day, and will be subject to a two points per day late penalty. The report need only be one or two pages long (10 or 12 point font) and should contain the following to be eligible for maximum credit:

1. Topic(s) of the day.

There might be more than one topic per lab session.

2. A list of materials or models used.

Slides, plastic models, display boards, projections, etc. (Be specific)

3. A list of important structures to remember.

Sometimes the instructor will tell you, sometimes not...

4. A brief paragraph on what you think the main objective of the lab was a why.

Remember, there might be more than one topic...

5. A brief paragraph on the most interesting concept you learned from the session.

Each topic...

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LABORATORY

ASSUMPTION OF RISK AND RELEASE OF LIABILITY

I have read and completely understand the written safety and other general laboratory rules and precautions that are a part of the requirements for my participation in the laboratory, as well as those wxplained to me by the instructor, and I agree to strictly abide by them.

I, _____ do for myself, my heirs, executors
(Print your name)

and administrators, hereby accept full responsibility for and indemnify, release, and discharge Chaminade University of Honolulu, its officers, agents, and employees from any and all claims of actions for property damage, and/or personal injury which may result from my failure to abide by the Laboratory Safety Rules and Precautions, or from any inherent risks in said laboratory.

Signature of Student

Date