

Biology 152: Human Anatomy and Physiology

Chaminade University of Honolulu

Summer Evening 2011

Section #152-60, 152L-60

7/5/11 - 9/13/11

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: Tuesday evenings 1730 - 2135, Pearl Harbor Ed. Center, Rm TBA

Laboratory class meeting and time: Saturdays 1230 - 1640, Chaminade Main Campus, HL4

Required Text: Tortora, Human Anatomy & Physiology, 12th Edition

Highly recommended: Anatomy Coloring Book, Integrated Human Anatomy (lab manual)

Course Description: A comprehensive second semester of human anatomy and physiology course for health/medical science programs 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:

WK	DATE	CHAPTERS	Topic (s)	NOTES & ASSIGNMENTS
1	7/5/11	16	Sensory, Motor, Integrative	
2	7/12/11	17,18	Special Senses, Endocrine	Quiz 1 (Q1)
3	7/19/11	19, 20	C-V Blood, C-V Heart	Q2, TP topic due
4	7/26/11	20, 21	C-V Heart, Vessels, Hemo	Q3, Review for midterm
5	8/2/11	22	Lymph & Immunity	Midterm Exam (Ch 16-21), lecture
6	8/9/11	23	Respiratory System	Q4
7	8/16/11	24	Digestive System	Q5
8	8/23/11	25, 26	Metab/Nutri, Urinary Syst	Q6
9	8/30/11	27, 28	Fluid/Electro, Reproduct	Q7
10	9/6/11	29	Develop & Inheritance	Q8, Review for final
11	9/13/11	Final Exam; Comprehensive with emphasis on Ch. 22 -29		

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 BOLD PRINT of chapters *before* the lecture.

For example, the student should read chapters 19 & 20 before the 7/19 lecture.

Class participation is required. There is a possibility of earning up to 30 points for asking thought-provoking questions and volunteering answers during lecture. You are also required to return all of your quizzes on the last day of class, and your participation grade will depend upon the returning of the quizzes.

Term Paper (TP): There is an optional extra credit term paper worth up to 30 points for students in danger of receiving a "D" or "F" only. Topics must be approved by the instructor.

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Lecture points:

<u>Category</u>	<u>Number</u>	<u>Points possible for each</u>	<u>Total points possible</u>
Quizzes	8	25	200
Midterm Exam	1	150	150
Final Exam	1	250	250
Participation	1	35	35

TOTAL LECTURE POINTS POSSIBLE: 635

At the instructor's discretion, the lowest lecture quiz grade MAY be dropped, which could affect the total points possible. Term paper **may** be changed to an optional assignment, but will be worth 30 points.

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	7/9/10	Lab and safety guidelines	
2	7/16/10	Cow eyeball dissection; ear, tongue and sinus models Pituitary gland models	Quiz 1
3	7/23/10	Blood cell slides, sheep heart dissection	Q2, Lab write up due
4	7/30/10	Sheep heart dissection, free study to review for MT	Q3, LWU 2 due
5	8/6/10	Fetal pig dissection, lymph and blood slides	Lab midterm , LWU 3
6	8/13/10	Fetal pig dissection	Q4, LWU 4 due
7	8/20/10	Fetal pig dissection	Q5, LWU 5 due
8	8/27/10	Models/dissection	LWU 6 due
9	9/3/10	Reproductive system models, Review for final exam	Q6, LWU 7 due
10	9/10/10	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 heart and blood vessels and hemodynamics.

Laboratory Final Exam is also a practical exam focusing on material from the midterm (lymph) through the last laboratory session, but will have some material from the midterm, also.

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 lab final exam and returned before the lecture final exam.

Laboratory write ups (LWU): 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). **Label the LWU with your name, LWU#, and topic.**

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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

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

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 disolor 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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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 body of the paper should be a total of 5 or 6 pages, NOT including the cover page or bibliography/references.
- 4. Due date:** 13 September 2011

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LABORATORY WRITE-UP (LWU) 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 3 point penalty if submitted during the next LAB session or a 5 point penalty if submitted AFTER the next LAB session. The report should only be one page 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...

Each write-up **MUST** contain the following information:

1. Your name
2. Date of the **lab session**, **NOT** the date you wrote the paper or when it is due.
3. Lab write up #.
4. Lab topic for the day.

LABORATORY NOTEBOOK GUIDELINES

Your lab notebook must contain drawings or photographs of the specimens and slides you work with in the lab. **DRAWINGS/PHOTOGRAPHS MUST BE LABELED WITH WHAT IT IS, AS WELL AS THE STRUCTURES IN THE DRAWINGS/PHOTOGRAPHS YOU ARE RESPONSIBLE FOR.** Credit will be earned **ONLY** if both the drawing/photograph **AND** structures are labeled.

Any handouts from the coloring book must be colored and labeled to earn credit.

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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 explained 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