Chaminade University of Honolulu, at Pearl Harbor

BIOLOGY 151 (60) Human Anatomy and Physiology I Spring 2001

Class Meetings: Mon/Wed 1905-2055 at Bldg 679, 2nd floor

Instructor: Charles Matsuda **Office Hours: by appointment or** after class

Phone Messages: 7349356 email: **cmatsuda@hawaii.edu** FAX: 7349151

TEXT: Principles of Anatomy & Physiology, 9th ed., by Tortora et al, with ancillary materials.

INSTRUCTION: Lecture. Regular attendance is normally required to pass.

GENERAL COURSE OBJECTIVE: To present, in lecture format, a la` semester introduction to human anatomy & physiology (A&P) for health/medical sciences programs. Concurrent registration in Biol 151 L required. Biol 152 provides a 2nd semester conclusion of the course materials.

SPECIFIC COURSE COMPETENCIES: Nursing, physical therapy assistant, or other allied health sciences students who pass this course will acquire knowledge covered in pertinent sections of their respective licensing exams. For other students, it is expected that the information acquired in this course will allow them to pursue more advanced studies in anatomy and/or physiology.

As the course proceeds, students will be expected to answer detailed objective questions concerning the lecture, readings, and class handout assignments relating to this PROSPECTIVE COURSE OUTLINE:

TOPIC(S)	CHAPTERS	TENTATIVE EXAM DATES
Introduction, Chemistry, Cells (know fig. 1.5 and exhibit 1.1)	1, 2, 3	EXAM 1 (April 18th)
Tissues, Integumentary System (know Tables 4.1, 4.2, 4.3)	4, 5	EXAM 2 (April 2
Bones (know all the bones and bone features assigned	6, 7, 8, 9	EXAM 3 (May 2nd)
Lab Practical Midterm, know models, figures from the text, and exhibits assigned in lab, up to this point.		Lab Practical Midterm (May 7"', 1930 start)
Muscles (know all muscles assigned)	10, 11	EXAM 4 (May 16th)
Blood, Heart, Vessels, Lymphatics (know all vessels, pp. 693 and 711)	19, 20, 21, 22	EXAM 5 (May 30th)
Digestive System, Metabolism	24, 25	EXAM 6 (June 6`°)
LECTURE FINAL, June T° (comprehensive, know lecture notes)	1 - 11, 19 - 22, 24, 25	LECTURE FINAL, June 6th
Lab Practical Final, know models, figures and exhibits in lecture text assigned after the midterm.		Lab Practical Midterm (June 11"`, 1930 start)

GRADING: The grade curve is based upon six 30 point exams, and an 60 point comprehensive final. NO extra credit assignments. A missed final exam will result in an 'F' grade.

Grade curve (approximate): "A" = 240-216 "B" = 215-192 "C" = 191-162 "D" = 161-138 "F" = 137-0.

Adjustment points will be added to all student point totals if the class average falls below the 75th percentile mark normally expected on a standard curve. Individual student scores and point totals that fall below 50% are below the absolute course minimum, and will not be calculated into class averages

STUDY SKILLS: Students are advised to organize, summarize, and rewrite their notes for review. The data standard for the course is the textbook, with heavy reliance on lecture notes. Check with me at any time for your current course standing.

Withdrawal Policy: Students who stop attending the lecture and/or lab with no withdrawal form processed will receive an "F". **Students who withdraw from lecture must withdraw from the lab as well. Please consult your program coordinators for assistance with forms and to determine deadlines.**

Important Notices:

Class is cancelled for the evening if, without prior notice, the instructor is twenty minutes late.

If you are absent, obtain lecture notes and find out about course schedule changes from classmates.

Comments and suggestions concerning the course are encouraged, but instructional, departmental, and university policies and responsibilities require that all final decisions reside with the instructor.

Mature and honorable behavior is expected of all class members. Any student observed looking at notes or another student's work during exams will be penalized minus 50 points for each incident.

Disruptive behavior will result in grade penalty and/or banishment from class. No earphones, no dictionaries, no calculators, no pagers, no cell phones, and no talking allowed during exams. Please turn off cell phones and pagers during lectures, and especially during exams.

The lecture final and all lab practicals will be retained by the instructor for a holding period that expires on August 1st of this year. Should any grade be disputed as incorrect during the holding period, contact me and scores and records will be checked for accuracy. On Aug 1st, course materials will be destroyed and recorded grades will stand as valid and irrevocable.

BIOLOGY 151 L (151 L60) Human Anatomy & Physiology I Lab, Spring '01

Chaminade University of Honolulu, Main Campus, 3140 Waialae Avenue, H-1 east, exit 25A

Class Meetings: Saturday at Main Campus, Henry Hall, room 8. Labs start at 12:30 PM.

Text: Integrated Human Anatomy, 4th ed., by C. Daniels, McGraw Hill Publ., 1994; and the lecture text.

Instruction: (a) dissection labs, (b) lab exercise write-ups, and (c) study of anatomy models and text images.

Course competencies: To learn basic anatomy and physiology by the completion of this course, and...

As the course proceeds, it is the responsibility of the students to be able to correctly answer questions from:

a. **The underlined structures cited in the lab manual concerning the anatomy models.**

b. **The relevant text information and picture identifications assigned from the lecture textbook.**

c. **The relevant text information provided on lab handout materials.**

d. **The structures cited in the lab manual relevant to the assigned dissection exercises.**

Grading: The lab grade distribution is based on 200 points, with adjustments to the curve. Lab and lecture grades are separate and independent. A **missed final will result in an 'F' grade.**

a. Lab practicals: A **lab practical midterm and a noncomprehensive final, 80 points each. Timed stations with multiple-choice questions concerning models, and lecture text images.**

b. Dissection testing on structures described in the lab manual, 20 points total.

c. Lab Write-ups: 20 points obtainable by written lab reports, which will be ranked on a percentage scale to be explained in class. There may be a 1 point penalty deduction for every day late; faxes, email acceptable.

Lab	Date	Prospective Schedule of Topic(s) for Biology 151 Lab	LectureText
01	Apr 7	The Scientific Method, paper assigned. Free study: Torso model, pp. 11-16, Cell and Skin models, pp. 17-19	Figs. 3.1, 3.19 thru 3.26, 3.33
02	Apr 14	Chemistry and Microscopy, paper assigned. Free study: Disarticulated Skeleton, pp. 21-26, Jaw, Knee, pp. 26-27 Use our atlas and/or Chs. 7 & 8 of our lecture text to stud the bones.	Tables 4.1 4.2, 4.3, Fig. 4.5
03	Apr 21	Free study: Arm Model, pp.28-34	Figs. 5.1 thru 5.3
04	Apr 28	Fetal Pig Dissection. pp. 79-91, dissection test in lab. Free study: all models and images.	Figs. 6.1 thru 6.6
05	May 05	Free study: all models and images.	
	May 07	Midterm Practical Exam, in the Pearl Harbor classroom in the evening. Material will include all models, figures, and exhibits assigned thus far. Special 1930 start time at Pearl Harbor.	Pearl Harbor 1930
06	May 12	Muscle Physiology Experiment, paper assigned. Free study: Leg Model, . 3437	Figs. 10.1 thru 10.6, 10.11,10.18 10.19
07	May 19	Heart Dissection. pp. 92-96, dissection test in lab. Free study: Vessels . 54-58 wall-mount model.	Table 10.2
08	May 26	Cardiovascular experiment, paper assigned. Free study: Digestive System model, pp.62-65, Heart model, pp. 52-54	Figs. 19.1, 19.37 20.9,20.12, 22.9
09	Jun 02	Free study: all models, figures, and exhibits assigned since the midterm.	Figs. 22.5thru 22.7, 24.2,24.524.8
10	Jun 9	Free study: all models, figures, and exhibits assigned since the midterm.	Fig. 24.11
	Jun 11	Final Practical Exam, noncomprehensive, in the Pearl Harbor classroom in the evening. Material will include all models, figures, and exhibits assigned since the midterm. 1930 start time at Pearl Harbor	Pearl Harbor 1930

Important Notices:

All practical exams will be retained by the instructor.

See me at any time during the semester to check your progress in lab.

Concurrent registration in Biology 151 is required.

No smoking, no drinking, no eating allowed in lab.

** ** LABORATORY WARNING AND DISCLOSURE ** *

Specimens used in this lab are stored in relatively "safe" solutions, but it should be assumed that they have been fixed in formalin, an aqueous solution of formaldehyde. Formalin is an irritant of the eyes, upper respiratory tract, and skin - - especially in sensitive individuals. Lab experiments have shown that formaldehyde is tumorogenic in rats, and the EPA classifies formaldehyde as a Group B 1 carcinogen.

Formalin is toxic. Drinking formaldehyde is fatal.

For these reasons, 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 rinsed off with water.**
4. **The specimen should be frequently rinsed with water.**
5. **Available fans should be set on full speed, and all windows and doors kept open.**
6. Anyone with chronic, **defined respiratory problems should report to the instructor.**

GENERIC LABORATORY RULES

1) Each student is expected to act in a mature and responsible manner in the laboratory.

2) Lab equipment is to be treated with care; please report any malfunction or breakage.

3) Keep your work area clean. All spills and debris are to be removed before leaving lab.

4) Preservative fluids can stain your clothes. A **lab coat, or an apron or an old shirt is recommended.**

SAFETY RULES

1) Know the location of the first aid kit and report any injury or toxic reaction to the instructor.

2) Dissection instruments are to be used carefully; **do not endanger people with inattention or horseplay.**

3) All incisions and cuts are to be made away from you and your lab partner. Whenever feasible, cut downward into the bottom of the dissecting pan.

4) Do not eat or drink anything in the lab; after leaving the lab, be aware of the possibility of contact-contamination.

5) Wear gloves when handling specimens. Wash off immediately and thoroughly if you touch preservative fluids.

Please tear along this line and present the completed form below to your instructor.

ASSUMPTION OF RISK AND RELEASE FOR BIOLOGY 151 LABORATORY

Spring 2001, April 02 - June 11, Saturday, 12:30-4:20, taught by Charles Matsuda

I have read and fully understand the written safety and other rules and precautions that are a part of the requirements for my participation in lab, as well as those explained to me by my instructor, and I agree to strictly observe them; and

1, (Please print your name on the line) do for myself, my heirs, executors, 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 these safety rules and precautions, or from any inherent risks in said lab.

Student Signature **Date**