



Chaminade University of Honolulu, at Tripler

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BIOLOGY 151 (15130)

Human Anatomy and Physiology I

Fall 1999

Class Meetings: Mon/Wed 1950-2155 at Bldg 101. Concurrent registration in Biol 151 Lab is required.

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

Phone Messages: 734-9356

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FAX: 734-9151

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

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

GENERAL COURSE OBJECTIVE: To present a comprehensive first semester introduction of human anatomy & physiology (A&P) for health/medical sciences programs, eg. nursing or physical therapy. Biol 152 provides a second semester conclusion of the course materials.

SPECIFIC COURSE COMPETENCIES: It is expected that the nursing, physical therapy assistant, or other health sciences students who pass this course will acquire the knowledge of A&P necessary to pass the 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 Exam Dates are NOT guaranteed
Introduction, Chemistry, Cells	1, 2, 3	EXAM 1 (Oct 18', Oct 20 th)
Tissues, Integumentary System	4, 5	EXAM 2 (Oct 25 th) 27 th
Bones	6, 7, 8, 9	EXAM 3 (Nov 1', Nov 3 rd)
Midterm, on all previous TOPICS	1 thru 9	Midterm (Nov 8 th)
Muscles	10, 11	EXAM 4 (Nov 17 th , Nov 22 nd)
Blood, Heart, Vessels, Lymphatics 8 th ed. (635, 649) 9 th ed. (693, 711)	19, 20, 21, (22)	EXAM 5 (Dec 1 st)
Digestive System, Metabolism	24, 25	EXAM 6 (Dec 8 th)
Review Session		Dec 13 th
ALL TOPICS	1-11, 19-21(22), 24-25	Comprehensive FINAL, Dec 15 th

GRADING: The grade curve is based upon six 30 point exams, a 60 point midterm, and an 60 point comprehensive final. **NO** extra credit assignments. Make-up exams can be scheduled, but score reduction penalties may apply. A **missed final will result in an 'F' grade.**

Grade curve (approximate): "A" = 300-270 "B" = 269-240 "C" = 239-210 "D" = 209-180 "F" = 179-0.

Adjustment points will be added to student 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: Biol 151 requires hours of study outside of class to pass. Students should organize, summarize, and rewrite their lecture notes for review. The data standard for the course is the textbook, with heavy reliance on lecture. 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.

Chaminade University of Honolulu, Main Campus BIOLOGY 191 Lab (1513L) Human Anatomy and Physiology I Lab, Main Campus Fall 1999

Class Meetings: Saturdays at the 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.

Lab	Date	Prospective Schedule of Topic(s) for Biology 151 Lab	LectureText
01	Oct 9	Lab Guidelines, The Scientific Method, paper to be assigned. Free study: Torso model, pp. 11-16, Cell and Skin models, pp. 17-19	
02	Oct 16	Chemistry and Microscopy, paper to be 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.)	Exhibits or Tables 4.1, 4.2, 4.3
03	Oct 23	Fetal Pig Dissection, pp. 79-91, dissection test in lab. Free study: Arm Model, pp.28-34	Figs. 5.2, 5.3, 6.1, 6.3, 6.6
04	Oct 30	Free study: all models and images.	
05	Nov 06	Midterm Practical Exam, material will include all models, figures, and exhibits assigned up to this time. Special start time, 1 PM.	
06	Nov 13	Muscle Physiology Experiment, paper to be assigned. Free study: Leg Model, . 3437	Figs. 10.5, 10.18 Exhibit or Table 10.2
07	Nov 20	Heart Dissection, pp. 92-96, dissection test in lab. Free study: Vessels . 54-58 wall-mount model.	In 9 th ed: Figs. 19.3, 19.7
08	Nov 27	Cardiovascular experiment, paper to be assigned. Free study: Digestive System model, pp.62-65, Heart model, pp. 52-54	Figs. 19.2, 19.6, 20.10, 21.9
09	Dec 04	Free study: all models, figures, and exhibits assigned since the midterm.	Figs. 22.5, 22.6 22.19
10	Dec 11	Final Practical Exam, material will include all models, figures, and exhibits assigned since the midterm. Special start time, 1 PM.	
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Instruction Methods: (a) dissection labs, (b) lab write-ups, and (c) study of models and textbook images.

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 (formaldehyde). Formalin is an irritant of the eyes, upper respiratory tract, and skin - especially insensitive individuals. Formaldehyde is tumorigenic 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 for possible initiation of alternative labs.

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 with careful 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. 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 any specimen. Skin contact is to be avoided. Wash off immediately and thoroughly if you touch preservative fluids.

Please fill in the form below, tear off at the dashed line, and turn in to your lab instructor.

ASSUMPTION OF RISK AND RELEASE FOR BIOLOGY 151 LABORATORY

Fall 1999, October 04 - December 16, Saturday, 1230, 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

I, _____ (Please print your name on the preceding 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

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

1. As the course proceeds, to correctly answer detailed questions derived from the following sources:

- 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.

2. Students should become "independent learners" by researching, writing, and editing lab reports, and by self-directing their lab study of models and textbook images.

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.
- b. Dissection testing on fetal pig and heart structures described in the lab manual, 10 points for each specimen.
- 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 will be a one point penalty deduction for every day late; faxes, email acceptable.

Important Notices:

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.