



FE102

**Chaminade University of Honolulu, at Tripler**  
**BIOLOGY 151 (30) Human A&P I** **Fall 2002**  
 Concurrent registration in Biol 151 Lab is required.  
 Class: Mon/Wed 1950-2155 Prof. Charles Matsuda  
 office: 734-9356 cmatsuda@hawaii.edu FAX: 734-9151 cell 551-5607

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

**GENERAL COURSE OBJECTIVE:** To present, in lecture format, a comprehensive first semester introduction to 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:** Information acquired in this course will support the pursuit of more advanced studies in A&P. Health sciences students who pass this course will have learned A&P knowledge, in whole or in part, pertinent to sections of their respective licensing exams.

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	2, 3 (Holiday Oct 14 <sup>th</sup> )	EXAM 1 (Oct 21 <sup>st</sup> , Oct 23 <sup>rd</sup> )
Tissues, Integumentary System (know Tables 4.1, 4.2, 4.3)	4, 5	EXAM 2 (Oct 28 <sup>th</sup> )
Bones (know fig. 1.5 and exhibit 1.1) (know the bones and bone features assigned)	6 thru 9 (Holiday Nov 11 <sup>th</sup> )	EXAM 3 (Nov 4 <sup>th</sup> , Nov 6 <sup>th</sup> )
Lab Practical Midterm, know models, and exhibits assigned in lab, up to this point	figures from the text,	Tripler Lab Practical (Nov 13 <sup>th</sup> )
Muscles (know all muscles assigned)	10, 11	EXAM 4 (Nov 20 <sup>th</sup> , Nov 25 <sup>th</sup> )
Blood, Heart, Vessels, Lymphatics (know all vessels, pp. 693 and 711)	19, 20, 21, 22	EXAM 5 (Dec 4 <sup>th</sup> , Dec 9 <sup>th</sup> )
Digestive System, Metabolism	24, 25	EXAM 6 (Dec 11 <sup>th</sup> )
Lab Practical Final at Tripler, NOT comprehensive	Models and images since the Lab Midterm	Tripler Lab Practical (Dec 16 <sup>th</sup> )
ALL TOPICS Lecture Final Exam (comprehensive, know lecture notes)	1-11, 19-21, 22, 24-25	Comprehensive FINAL, Dec 18 <sup>th</sup>

**GRADING:** The grade curve is based upon six 30 point exams, and a 60 point comprehensive final.

NO extra credit assignments. Make-up exams can be scheduled, but score reduction penalties may apply.

Grades (approximate): "A" = 240-216 "B" = 215-192 "C" = 191-160 "D" = 159-136 "F" = 135-0.

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:** You should organize, summarize, and continually rewrite your lecture notes for review. Make and use color coded flash cards. Draw organs and flow charts. 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:**

The Chaminade main campus lab will be used on Saturday for lectures and exams in the unlikely case that security measures deny your professor entry to Tripler grounds.

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

If you are absent, obtain lecture notes and find out about course schedule changes from classmates. Please email your professor, [cmatsuda@hawaii.edu](mailto:cmatsuda@hawaii.edu) for clarification or further information.

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

  **Chaminade Main Campus**, 3140 Waialae Avenue. From central and west Oahu: H-1 east, exit 25B, left on 6<sup>th</sup> Avenue, left on Waialae Avenue, turn right onto the campus at 3<sup>rd</sup> Avenue.  
**BIOL 151L (30) Human Anatomy and Physiology I Lab** **Fall 2002**

**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 for Biology 151 Lab at Chaminade Main Campus	LectureText Images
01	Oct 12	Lab Guidelines, The Scientific Method, <b>paper to be assigned.</b> Free study: Torso model, pp. 11-16, Skin models, pp. 17-19	Figs. 3.1, 3.20 thru 3.26, 3.33
02	Oct 19	Chemistry and Microscopy, <b>paper to be assigned.</b> Free study: Disarticulated Skeleton, pp. 21-26, Jaw, Knee, pp. 26-27 (Use your atlas and/or Chs. 7 & 8 of your lecture text to study the bones.)	Tables 4.1, 4.2, 4.3, 4.4, and Fig. 4.5
03	Oct 26	Fetal Pig Dissection, pp. 79-91, dissection test in lab. Free study: Arm Model, pp.28-34	Figs. 5.1 thru 5.4
04	Nov 02	Free study: all models and images. Torso, skin, jaw, knee, arm & bones.	Figs. 6.1 thru 6.7
05	Nov 09	Free study: all models and images. Torso, skin, jaw, knee, arm & bones.	Fig. 9.3
06	Nov 13	Midterm Practical Exam at Tripler, material will include all models, and images assigned up to this time. The class may be split to take this exam.	Tripler Practical Exam
07	Nov 16	Muscle Physiology Experiment, <b>paper to be assigned.</b> Free study: Leg Model, pp. 34-37	Figs. 10.1 thru 10.6, 10.11,10.18,10.19
08	Nov 23	Heart Dissection, pp. 92-96, dissection test in lab. Free study: Vessels pp. 54-58 wall-mount model.	Table 10.2
09	Nov 30	Free study: Digestive System model, pp.62-65, Heart model, pp. 52-54	Figs. 19.1, 19.3, 19.7, 20.9, 20.12, 22.9
10	Dec 07	Cardiovascular experiment, <b>paper to be assigned.</b> Leg, heart, vessels and digestive wall-mounts.	Figs. 22.5 thru 22.7, 22.19, 24.2, 24.5,
11	Dec 14	Free study: all models, figures, and exhibits assigned since the midterm.	24.8, 24.11, 24.18, 24.23, 24.27
12	Dec 16	Final Practical Exam at Tripler, material will include all models, figures, and exhibits assigned since the midterm. The class may be split to take this e	Tripler Practical Exam

**Instruction Methods:** (a) dissection labs, (b) lab write-ups, and (c) study of models and textbook images.

**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 AND alpha or numeric coded structures cited in the lab manual concerning the models.
  - b. The relevant picture identifications assigned from the lecture textbook.
  - c. 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.

**Lab 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 may 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 may 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.

**Please read and sign the Risk and Release form overleaf.**



**\*\*\*\*\* 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, which is an irritant of the eyes, upper respiratory tract, and skin. It is tumorigenic in rats, and a Group B1 carcinogen. Formalin is toxic; drinking it 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 with care and control; stay focused and avoid horseplay.
- 3) All incisions 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 in the lab; after leaving the lab, be aware of the possibility of contact-contamination.
- 5) Skin contact is to be avoided. Wash off immediately and thoroughly if you touch preservative fluids.

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

**ASSUMPTION OF RISK AND RELEASE FOR BIOLOGY 151 LABORATORY**

**Fall 2002, October 07 - December 18, 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.

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Student Signature

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Date