Chaminade University of Honolulu, at Tripler

BIOLOGY 152 Human Anatomy and Physiology II Winter 1999

Class Meetings: Mon/Wed 1950-2155. Concurrent registration in Biol 152 Lab is required.

Instructor: **Charles** Matsuda **Messages: 734-9356 or** email: **cmatsuda@hawaii.edu**

TEXT: **Principles of** Anatomy **& Physiology, 8th ed.**, **by Tortora and Grabowski, and the accompanying materials that are packaged with the course textbook.**

INSTRUCTION: Lecture material is **derived from a variety** of **sources, and regular attendance is normally required to pass. Due to federal loan protocols and other considerations, attendance will be taken.**

GENERAL COURSE OBJECTIVE: To present a comprehensive second semester conclusion of human anatomy & physiology course materials for health/medical sciences programs such as nursing or physical therapy. Biology 151 provides a first semester introduction to the course materials.

GENERAL COURSE COMPETENCIES: It is expected that the nursing, physical therapy assistant, or other allied health sciences students who pass this course will have acquired the knowledge of basic human anatomy and physiology 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 physiology.**

SPECIFIC COURSE COMPETENCIES: As the course proceeds, and at the completion of this course, students will be expected to be able to answer detailed objective questions concerning the lecture material, textbook readings, and class handout assignments relating to this PROSPECTIVE COURSE OUTLINE:

TOPIC (S)	CHAPTERS	TENTATIVE EXAM DATES
Nervous tissue & the Spinal **Cord**	**12 & 13**	**EXAM 1 (Jan 25)**
Brain & Cranial Nerves, Sensory, Motor, & Integrative Systems	**14 & 15**	**EXAM 2 (Feb 1)**
Special Senses **and the Autonomic Nervous System, review for midterm after exam 3**	**16 & 17**	**EXAM 3 (Feb 8)**
The Deep Impact Midterm	**12 thru 17**	**Midterm exam (Feb 10)**
Endocrine System	**18**	**EXAM 4 (Feb 17)**
Respiratory System	**23**	**EXAM 5 (Feb 24)**
Urinary System **and Fluid, Electrolyte, and Acid-Base Homeostasis**	**26 & 27**	**EXAM 6 (Mar 3)**
Reproductive System, Development and Inheritance	**28 & 29**	**EXAM 7 (Mar 10)**
ALL TOPICS, The Armageddon Final	12-18, 23, **26-29**	**FINAL EXAM, comprehensive, Mar 24**
No Classes on Dr. Martin Luther King Day, January 18, and President's Day, February 15.		

STUDY SKILLS AND ADVISING: Biol 152 is a **demanding course. Many hours of study per week outside of class are required to pass. Organize, summarize, and rewrite lecture and text information into a set of review notes. The data standard for the course is the textbook, with heavy reliance on lecture notes.**

Students who perform poorly on tests should seek academic advising from the instructor.

GRADING: The grade curve is based upon seven 30 point exams, a 60 point midterm, and an 80 point comprehensive final.

NO **retaking exams, and NO extra credit assignments.**

If an exam is missed, a make-up will be scheduled if the student provides a medical or other documented excuse of similar weight within seven days. Score reduction penalties will apply to missed exams. points,

Letter grade distribution: "A" = 350-315 "B" = 314-280 "C" = 279-245 "D" = 244-210 "F" =**209-0.**

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. Student scores and point totals that fall below 50% are below the absolute course minimum, and will not be calculated into class averages.

In-class writing assignments - These assignments are short essays requiring interpretation, reflection, and deduction. Proper grammar and logic are expected of student responses. No points are earned for these assignments, but poor performance may affect a student's grade adversely.

Withdrawal Policy: Students who disappear from the lecture or lab with no withdrawal form processed will earn an "F". Students who withdraw from lecture must withdraw from the lab as well. **The last day to withdraw is sometime in late February, (please consult your Program** coordinators **for assistance).**

BIOLOGY 152 L Human Anatomy and Physiology II Lab Winter 1999

Class Meetings: Saturday 12:30 pm at Henry Hall in room 8 or in room 17 next door.

Lab Text: Integrated **Human Anatomy, 4th ed., by C. Daniels, McGraw Hill Publ., 1994**

Instruction Methods: This course combines (a) dissection labs, (b) lab exercises and write-ups, (c) study of anatomy models, and images in the lecture text, and (d) self-directed Creative Imaging, which is explained in the lab manual, pp. 4-10, with examples and forms at the back of the manual.

Course competencies: **To learn human anatomy and physiology by the completion of this course, and...**
1. As the course proceeds, it is the responsibility of the students to be able to correctly answer detailed questions derived from the following sources:

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

b. The assigned figures in 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 will learn, practice, and execute** the **study skill of Creative Imaging.**

3. **Students should become "independent learners" by researching, writing, and editing lab reports, selecting and drawing Creative Images, and by self-directing their lab study of models and laser-disc images.**

Grading: **The grade distribution is based on 200 points, with adjustments to the curve as outlined for lecture.**

Lab and lecture grades are separate and independent.

a. Lab practicals: a **mid-term and** a **noncomprehensive final. Each exam is 60 points, involving timed stations at which students answer multiple-choice questions concerning identification of images and structures on**

models. Any missed practical will be recorded as 'zero'. Midterm and Final practical exams will be retained by the instructor.

b. Dissection labs: 20 total points are obtainable by individual testing at the end of each dissection lab.

c. Lab Write-ups: 30 total points are obtainable by written 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 are acceptable.

d. Creative Images: 30 points are obtainable for the completion of 10 acceptable Creative Images depicting lab materials. Points will be deducted for unacceptable images. Due in class March 20, 1999. There will be a two point penalty deduction for every day late; faxes are acceptable, but the received copy will be evaluated, and poor reproduction quality may result in point deductions.

Lab	Date	Prospective Biology 152 Lab Schedule Topic(s)	Text Figures
01	Jan 16	**Lab Guidelines, The Scientific Method handouts, paper assigned.**	12.2 thru 12.5 12.10, 12.13
		Self-study Brain model (46-49) Nervous Syst (49-51)	13.3 thru 13.5 13.11,13.12
02	Jan 23	**Sheep brain and eye dissection, self-study Brain model (46-49)**	14.1 thru 14.4
		Self-study Brain model (46-49) Nervous Syst (49-51)	14.9, 14.11, 14.13 14.16
03	Jan 30	**Neurophysiology experiment, paper assigned.**	16.4, 16.5, 16.7
		Self-study Eye models (41-43) & Ear model (43-45)	16.19, 16.21, 16.22
04	Feb 06	**Special senses experiments, paper assigned.**	
		Self-study models & images, practice creative images due.	
05	Feb 13	Midterm Lab Practical Exam, **Endocrine paper assigned.**	
06	Feb 20	**Respiratory experiment, paper assigned**	18.1, 18.13, 18.17,
		Self-study Respiratory System model (66-68), Kidney model (59-60)	18.23
07	Feb 27	**Urinary physiology experiment, paper assigned.**	23.4, 23.10, 23.11
		Self-study Urinary system model (60-61), Male & female models (69-72)	26.6, 26.7, 26.9, 26.10
08	Mar 6	**Dissect kidney/testis, fetal pig reproductive systems.**	28.2 thru 28.5
		Self-study models & images	28.13, 28.15, 28.19
09	Mar 13	**Self-study models & images**	28.25, **28.30, 29.2** 29.3, 29.5
10	Mar 20	Final Practical Exam	

General Notices for both lecture and lab:

Class (lecture and lab) is cancelled for the day if, without prior notice, the instructor is twenty minutes late.

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

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 40 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.

Unforeseen circumstances may require alterations of the exam dates or the chronology of lecture/lab topics. If absent, it is your responsibility to find out if schedule changes were made.

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

Important Notices for the LABORATORY:

It is recommended that you take advantage of the entire scheduled time to study the anatomical models and images for the practical exams. Procrastination is poor strategy, as facilities are limited. Additional open lab hours may be made available, but there is no guarantee.

No smoking, no drinking, no eating, no picture-taking, no software copying allowed in lab.

***** LABORATORY WARNING AND DISCLOSURE *****

Dissection material used in this lab should be assumed to have been fixed in formalin, an aqueous solution of formaldehyde. Although fonnalin has been used as a fixing agent and preservative of biological specimens for years, recent evidence indicates that formalin is an irritant of the eyes, upper respiratory tract, and skin - - especially in sensitive individuals. Also, lab experiments have shown that formaldehyde is tumorogenic in rats, and the EPA classifies formaldehyde as a Group B I 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 alternative labs.

GENERIC LABORATORY RULES

1) Generally, 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 and/or disodor your clothes. Protective clothing such as a lab coat, 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 & 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 and appendages. Whenever feasible, cut downward into the pad liner on 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 immediately 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 152 LABORATORY

WINTER 1999, January 11 - March 24, Sat, 1330-1730, 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 here) 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