SSE 99

Chaminade University of Honolulu, at Tripler P

BIOLOGY 15230 Human Anatomy and Physiology II Summer 1999

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

Instructor: Charles Matsuda Messages: 7349356 or email: cmatsuda@hawaii.edu

TEXT: Principles of Anatomy & Physiology, 8th ed. , by Tortora and Grabowski, with accompanying materials.

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. A continuation of Biology 151, which 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 (July 14)
Brain & Cranial Nerves, Sensory, Motor, & Integrative Systems	14 & 15	EXAM 2 (July 26)
Special Senses and the Autonomic Nervous System, review for the midterm after exam three.	16 & 17	EXAM 3 (Aug 02)
The Tarzan Midterm	12 thru 17	Midterm exam (Aug 04)
Endocrine System	18	EXAM 4 (Aug 16)
Respiratory System	23	EXAM 5 (Aug 23)
Urinary System and Fluid, Electrolyte, and Acid-Base Homeostasis	26 & 27	EXAM 6 (Aug 30)
Reproductive System, Development and Inheritance	28 & 29	EXAM 7 (Sept 08)
ALLTOPICS	12-18, 23, 26-29	FINAL EXAM, comprehensive, Sept 13

STUDY SKILLS AND ADVISING: 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 extra credit assignments.**

Letter grade distribution in %: "A" = 100-90 "B" = 89-80 "C" = 79-67 "D" = 66-56 "F" = 55-0.

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.

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 Lab **Human Anatomy and Physiology II Lab Summer 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 writing lab reports, drawing Creative Images, and by self-directing their lab study of models and assigned textbook 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 and 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. Points will be deducted for unacceptable images. Due in lab September 11, 1999. There will be a one point penalty deduction for each image if turned in at Tripler on September 13. Faxes are acceptable, but the received copy will be evaluated, and poor reproduction quality may result in point deductions.**

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

		Prospective summer 1999 Biology 152 Lab Schedule Topic(s)	Text Figures
01	July 10	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	July 17	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	July 24	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	July 31	Special senses experiments, paper assigned. Self-study models & images, practice creative images due today.	
05	Aug 07	**Midterm Lab Practical Exam,** Endocrine paper assigned.	
06	Aug 14	Respiratory experiment, paper assigned	18.1, 18.13, 18.17,
		Self-study Respiratory System model (66-68), Kidney model (59-60)	18.23
07	Aug 21	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	Aug 28	Dissect kidney/testis, fetal pig reproductive systems.	28.2 thru 28.5
		Self-study models & images	28.13, 28.15, 28.19
09	Sept 04	Self-study models & images	28.25, 28.30, 29.2 29.3, 29.5
10	Sept 11	**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 progregg.

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

Dissection material used in this lab should be assumed to have been fixed in formalin, an aqueous solution of formaldehyde. 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 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) **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. 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; be aware of the possibility of contact-contamination.

5) Wear gloves when handling any specimen. 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

Summer 1999, July 06 - September 14, Saturdays at 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 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**