ZOOLOGY 142L SYLLABUS

Spring 2015

ZOOL 142L SECTIONS: 63334 T 1-3:45 pm; 63188 T 5:30-8:15 pm
Rooms: Imiloa 103
Instructor: Michelle Smith
Office: Imiloa 136
Office Hours:
Email: miliefsk@hawaii.edu
Website: www.wcc.hawaii.edu/facstaff/miliefsky-m/

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Ko‘olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

Laboratory to accompany ZOOL 142. Reinforces the facts and concepts of human anatomy and physiology discussed in ZOOL 142 through dissections, examination of models, laboratory activities, and other hands-on experiences. This course is intended for students entering health care or medically related fields such as nursing, physical therapy and medical technology. (3 hours laboratory)
Pre-Requisite(s): Credit for or registration in ZOOL 142 or equivalent preparation or consent of instructor.

STUDENT LEARNING OUTCOMES

Upon successful completion of ZOOL 142L, the student should be able to:
1) Use the scientific method to design and conduct a clinical research study.
2) Describe the anatomy of the endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems from prepared slides, models, and real and virtual animal dissections.
3) Use basic laboratory and medical equipment (microscopes, sphygmomanometers, stethoscopes, ECG apparatus, & respiratory spirometers) to evaluate functions of the above body systems.
4) Use critical thinking to analyze and interpret clinical data.
5) Prepare an oral presentation and written summary of lab activities using the scientific method.

LEARNING RESOURCES

* In addition, many students find it helpful to bring a digital camera and USB flash drive to class in order to photograph anatomical specimens and exchange data files and pictures from the digital microscopes.
COURSE CONTENT

Concepts or Topics
The student will describe and integrate basic biological principles and define basic biological terms presented in lecture, required texts, and other instructional materials. These principles include the following areas:

- Anatomy of the endocrine systems and physiology of hormone actions
- Functions and components of blood
- Anatomy of the heart and regulation of heart rate and cardiac output
- Anatomy of blood vessels and regulation of blood pressure and blood flow
- Mechanisms of general and specific resistance
- Anatomy and physiology of the respiratory system
- Digestive anatomy, processes, nutrition, and metabolism
- Anatomy of the urinary system, renal physiology, and fluid & electrolyte homeostasis
- Anatomy and physiology of male and female reproductive systems
- Physiology of pregnancy and fetal development
- Genetics and inheritance

COURSE TASKS

1) Attend class at scheduled times.
2) Participate in lab activities.
3) Complete required exercises in lab manual.
4) Complete 2 Practicals.
5) Present results of lab activities.

GRADING

Grading:
Laboratory practical exam 2x 300  600 points
Pre-Lab Quizzes 100 points
Lab Manual exercises 200 points
Attendance 50 points
Participation 50 points
TOTAL 1000 points

LABORATORY PRACTICAL EXAM (600 points). Two laboratory practical exams will be given throughout the semester. Each is worth 300 points each toward your lab grade.

The exam questions may consist of multiple choice, fill in the blank or a word bank, and pertain to: 1) any of the structures in the lab manual, or noted on handouts (referring to anatomical models and dissections); 2) the information related to physiology experiments performed; 3) any of the structures and functions on the assigned Slides.

Typically, exams cannot be made up; however, under unusual circumstances (emergencies) I may be able to fit a student in another lab time. This semester I have a 142 lab on Monday 8:30am and 4pm, and Tuesday at 4pm. Other instructors may hold their practical on different weeks, so it may not be feasible to makeup an exam.

DO NOTETHAT THE LAST LAB PRACTICAL WILL BE HELD DURING THE LAST WEEK OF CLASSES, NOT FINALS WEEK.

PRELAB QUIZZES (100 points): A quiz will be given at the beginning of each lab related to that days material. You need to be to lab on time to take it. They will be posted ahead of time on my website.
LAB MANUAL EXERCISES (200 points): Complete all lab manual exercises related to that weeks activity to be checked off by the instructor. Lab exercises need to be fully complete for full credit and turned in on time for a total of 200 points.

ATTENDANCE (50 points): Attendance is mandatory. Each unexcused absence will result in a deduction of 5 points.

PARTICIPATION (50 points):
This includes participating in all laboratory activities and working cooperatively within your group. You are also responsible for cleaning up the lab after an activity (e.g., putting specimens away, cleaning equipment you use, and bleaching table after dissecting).

Final Grade:
Tentative grades associated with semester exam scores are only to give a rough estimate of relative class standing, and are not used to determine the final grade

The standard grade scale will be used to determine your final grade. 

(≥90%=A, ≥80%=B, ≥70%=C, ≥60%=D, ≥50%=F)

ADDITIONAL INFORMATION

LAB ATTIRE, CONDUCT, AND HYGIENE
Because biology labs often involve working with chemicals or hazardous materials, students MUST wear close-toed shoes. In addition, some lab activities will require students to wear gloves and safety glasses (provided by the college). Several labs will involve body measurements (e.g., body fat), light exercise, or the placement of electrodes or sensors on the body. Students should therefore wear loose-fitting clothing that allows for a free range of movement (i.e. no tight-fitting pants or jeans). Students failing to dress appropriately for lab will not be permitted to participate in laboratory exercises and will be considered absent. Students engaged in conduct that threatens themselves or others in the lab will be refused access to the lab for the remainder of the semester and receive and “F” grade for the course.

LAB SUBJECT POLICY
Most labs involve non-invasive clinical measurements (e.g., skin-fold measurement, reflex tests, etc). ALL students are required to participate in these activities. If you have a health condition or other reason why you should not participate you should inform the instructor. Experiments involving invasive or semi-invasive procedures (e.g., finger sticks and urinalysis) will be performed on volunteers only.

ACADEMIC DISHONESTY
Students involved in academic dishonesty will receive an "F" grade for the course. Academic dishonesty includes cheating on exams and plagiarism. See pages 20-21 of the 2009-2011 WCC course catalog for a description of the University’s policies concerning academic dishonesty.

ACCOMMODATION FOR STUDENTS WITH DISABILITIES
If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale 'Akoakoa 213 for more information.

TWO-WAY COMMUNICATION DEVICES:
These devices are not allowed in the classroom. Please see to it that these devices are turned off while in class.

**UH POLICY ON EMAIL COMMUNICATION:**

The electronic communications policy adopted in December 2005 establishes the University of Hawai‘i Internet service as an official medium for communication among students, faculty, and staff. Every member of the system has a hawaii.edu address, and the associated username and password provide access to essential Web announcements and email. You are hereby informed of the need to regularly log in to UH email and Web services for announcements and personal mail. Failing to do so will mean missing critical information from academic and program advisors, instructors, registration and business office staff, classmates, student organizations, and others.

**ACADEMIC GRIEVANCE STATEMENT:**
In instructional activities, the students are responsible for meeting all of the instructor's attendance and assignment requirements. Failure to do so may affect their final grade. In all college-related activities, including instruction, they must abide by the college's conduct codes and regulations, refraining from behavior that interferes with the rights and safety of others in the learning environment. Finally, if they decide to file a grievance, they are fully responsible for providing proof that they have been wronged.

**CLASS CANCELLATION:**
Lecture is cancelled if, without prior notice, the instructor is more than 15 minutes late for 75 minute classes or 10 minutes for 50 minute classes.

*This Syllabus is subject to change, when appropriate.*
LAB SAFETY RULES

1. Be familiar with lab safety procedures and take appropriate precautions at all times to insure the safety of all lab students.
2. Follow all instructions carefully, especially when hazardous materials are being used.
3. Know the locations of important safety equipment: eyewash, safety shower, fire extinguisher, and first aid kit.
4. Report all injuries to the instructor immediately.
5. Dress appropriately for lab. Closed-toe shoes are required for ALL labs. Safety glasses and gloves are required for labs utilizing chemicals, bodily fluids, or hot-plates.
6. Report any hazardous conditions (e.g. chemical spills or broken glass) to the instructor immediately.
7. NO FOOD ALLOWED IN LAB
8. Chemicals used in lab may be poisonous, corrosive, or flammable. No chemicals, even those known to be safe, should be ingested or touched with un-gloved hands unless you are specifically directed to do so by your instructor.
9. Know how to safely operate all lab equipment and tools (e.g., microscopes, scalpels, and hematology supplies). Safe usage will be demonstrated by your instructor.
10. Clean all lab supplies and return them to their proper location before leaving lab.
11. Treat all organisms, living or dead, with care and respect. Use gloves when handling dissected specimens.
12. Place broken glass, sharps, and dissected specimens in the appropriate receptacles (NOT IN THE TRASH!)
13. Unless otherwise instructed, chemical wastes should NOT be disposed of down the drain.
14. Human tissues and bodily fluids (e.g., saliva and blood) must be disposed of in appropriate bio-hazard containers (NOT IN THE TRASH!).
15. Wash your hands immediately following each lab to reduce the possibility of contamination or infection.