ANSC 263
Laboratory Animal and Exotic Procedures
Tuesdays and Fridays 1:00-3:45pm Hale Pānakila 102  CRN: 62455

INSTRUCTOR:  Dani Carico, CVT
OFFICE:  Hale Na‘auao 111

OFFICE HOURS:  Tuesdays 11:30-12:30p
TELEPHONE:  236-9165
EMAIL:  caricod@hawaii.edu
EFFECTIVE DATE:  August 26, 2014

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

CATALOG DESCRIPTION

Introduction to the care and use of laboratory animals and exotics. Includes training in restraint, nursing, and husbandry of common laboratory animal species and exotics (rats, mice and rabbits). This course is intended for students entering lab animal medicine, veterinary technology, veterinary assisting or other animal-related fields (3 hrs. lect, 1hr internship).

Prerequisite: Credit for ANSC 151 and ANSC 151L.

Activities Required at Scheduled Times Other Than Class Times:
Students enrolled in ANSC 263 are required to intern at UH JABSOM Kakaako Lab Animal Facility. The time and duration of the internship will be arranged by your instructor.

STUDENT LEARNING OUTCOMES
Upon successful completion of ANSC 263, the student should be able to:

1) Comply with national and institutional regulations regarding the care and use of laboratory animals.

2) Recognize common lab animal and exotic species and safely restrain them for laboratory procedures.

3) Administer drugs and medications using appropriate sites and routes (IV, IM, SQ and Oral Dosing).

4) Humanely collect blood samples from mice, rats and rabbits.

5) Describe the signs and treatments for common diseases of lab animals and exotics.

6) Explain anesthetic and recovery procedures.
COURSE CONTENT

Concepts or Topics

The student will describe and integrate basic biological principles and define basic biological terms presented in lecture, laboratory, required texts, and other instructional materials. The student will also be required to physically demonstrate skills necessary to the humane care of laboratory animals.

Topics include:
- Regulations regarding the care and use of laboratory animals
- Occupational health and safety
- Potential for zoonotic diseases
- Sanitation procedures
- Ethics of animal use
- Types of laboratory animal facilities
- Types of primary enclosures
- Feeding and watering devices
- Biosafety levels
- Lab Animal Protocols and IACUC approvals
- Animal identification procedures (tags, tattoos, etc)
- Anatomy and physiology of common laboratory animals
- Animal behavior
- Assessing vital signs, reflexes and general health of laboratory animals
- Restraint techniques
- Blood collection techniques
- Administration of medications
- Common diseases of laboratory animals: signs, pathology, and treatment
- Husbandry and nutrition
- The research process
- Care of non-human primates and exotics
- Methods of administering anesthesia and analgesia
- Methods of euthanasia and disposal
- Basic husbandry, anatomy, and care for exotics

COURSE TASKS

1) Attend class at scheduled times.
2) Complete assigned readings and other assignments on Laulima prior to lecture.
3) Participate in class discussions.
4) Complete/Pass AVS Review of Regulations online exam.
5) Complete 3 review lecture exams, a final exam and any unannounced quizzes
6) Intern at UH LAS or other approved lab animal facility for the minimum of hours required to complete the skills checklist.
7) Complete the skills checklist under the supervision of an instructor or lab animal technician.
8) Turn in a completed notebook that is in order.
**ASSESSMENT TASKS AND GRADING**

**REVIEW OF REGULATIONS**: All Students are required to complete the Citi Program review of regulations. The exam will be administered via [http://www.hawaii.edu/LAS/training.html](http://www.hawaii.edu/LAS/training.html) And you will need to register for the regulations. This exam is open book/notes, and students may take the exam three times in order to obtain a passing score. In order to complete the review of regulations, students will need to complete the following modules and print the completion reports on:

1) Aseptic surgery  
2) Data or Specimens Only Research-Basic/Refresher  
3) Reducing Pain and Distress in Laboratory Mice and Rats  
4) Refresher Course for investigators conducting research with lab animals.  
5) Working with Mice in Research  
6) Working with rabbits and other exotics in a clinical setting  
7) Working with rats in Research Settings  
8) Investigators, staff and students: Initial Basic Course.

Students who do not pass the exam will not be allowed to participate in the clinical internship and will receive an “F” for the course.

**ATTENDANCE** (25 points): Attendance is mandatory and defined as being present in class for at least 75% of the class period and is worth 20 points toward the final grade. Each student is allowed one absence and tardy without penalty. Each unexcused absence or tardy above one will result in a deduction of 10 points from the student’s attendance score. Students with more than three unexcused absences will receive an “F” grade in the class. Students who do not participate in class discussions or come unprepared to participate in these activities will have points deducted from their attendance score.

**NOTEBOOK** (25 points): The Exotic and Laboratory Animal Procedures Notebook can be purchased at the WCC bookstore and must be filled out at the end of every Chapter. Students will be required to have them completed and kept in order, in a notebook along with their notes and other handouts that will be graded at the end of the semester. In order for students to get points on their notebook, they must have everything filled out in the notebook in black ink or they will receive a deduction of 2 points for each number with missing content or not using black ink up to a max of 25 points.

**DISCUSSIONS & ASSIGNMENTS** (50 points): All students are required to discuss topics and complete assignments listed on Laulima that are posted by the instructor. Discussions must entail a response to the topic and a response to at least 2 of your fellow students. Max points are given if students are able to follow the directions and complete the discussions and assignments on time.

**QUIZZES** (150 points): There will be unannounced cumulative quizzes given during class. Quizzes will be based on textbook, notebook and lecture content from previous classes.

**EXAMS** (150 points total-50 points for each exam): The student will take three review exams (cumulative) at the WCC testing center to demonstrate knowledge and understanding of information presented in the lectures, laboratory instruction, worksheets and text readings.

**COURSE SKILLS CHECKLIST**: Each student is required to intern at the LAS Lab Animal
Facility. This internship will enable the student to gain hands-on experience in the husbandry and nursing of laboratory animals under the supervision of the Instructor or lab animal technician. Students who do not complete the skills checklist will receive an “F” for the entire course. The student’s performance will be documented on the course skills checklist and must be signed off by the instructor. This checklist must be turned in with the notebook to be graded.

**FINAL EXAM** (200 points). The final exam is cumulative.

**METHOD OF GRADING**
The assignment of points will be according to the following:

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<th>Points</th>
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<td>Attendance</td>
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<td>Notebook</td>
<td>25</td>
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<tr>
<td>Discussions &amp; Assignments</td>
<td>50</td>
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<tr>
<td>Quizzes</td>
<td>150</td>
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<td>Exams</td>
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<td>Final Exam</td>
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<td><strong>TOTAL</strong></td>
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**GRADING SCALE ESTIMATE**

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<td>480-539</td>
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<td>420-479</td>
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<td>360-419</td>
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<td>&lt; 359</td>
<td>0-59</td>
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Grades may be curved at the instructor’s discretion; however, the student should use the above grading scale to evaluate their performance throughout the class. If you miss an exam or quiz because of an illness or legitimate emergency, you must contact the instructor **within 48 hours** to arrange a time to take a make-up exam or quiz. The instructor may request that the student present evidence of the illness or emergency that caused the student to miss the exam/quiz. If the student misses an exam/quiz for any other reason, the student may be prohibited from taking a make-up exam/quiz, thus failing to receive any points for the missed exam/quiz. While make-up exams/quizzes will cover the same content area, the exam/quiz format and specific questions may be different.

**ACADEMIC DISHONESTY**

*Students involved in academic dishonesty will receive an "F" grade for the course.*

Academic dishonesty includes cheating on any testing material and plagiarism. Students are prohibited from discussing any testing material with each other once they have taken any exam. See the 2010-2011 course catalog for a description of the University’s policies concerning academic dishonesty.

**LEARNING RESOURCES**


**ANSC 263 Notebook:** Exotic and Laboratory Animal Procedures Notebook. This notebook is designed
to help students focus their attention on important information for testing purposes.

**Lecture Outlines:** Power point lectures and work sheets will be given at the beginning of each lecture.

**Laulima:** Your instructor has created a Laulima website to accompany this course. This website contains copies of handouts and syllabi, and links to on-line learning resources. Students enrolled in ANSC 263 are automatically enrolled in the Laulima website. To access, go to https://laulima.hawaii.edu/portal. Login using your UH username and password.

### Additional Information

**STUDENT RESPONSIBILITIES**
The student is expected to attend lectures, participate in all course activities, and complete all Exams, quizzes and course assignments on time. Please be considerate to other students by turning off any cell phones or beepers during class. Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time on the course website. It is the student's responsibility to be informed of these changes. It is the student's responsibility to be informed about deadlines critical to making registration changes (e.g., last day for making an official withdrawal).

**HOW TO SUCCEED IN THIS CLASS**
Although you can download all lecture and course materials, you will not succeed in this class without attending lecture and taking detailed notes on the corresponding material in the textbook and notebook. Merely reading the chapter will not suffice. Science courses generally require a minimum of two to three hours of independent study time for each hour in class. It is your responsibility to allocate the appropriate amount of time needed for study and be realistic about all personal and professional commitments that may cut into your study time.

**ATTIRE, CONDUCT, AND HYGEINE**
Students MUST wear close-toed shoes at all time for labs. In addition, some activities will require students to wear medical scrubs, gloves and other protective equipment. Students failing to dress appropriately for the lab will not be permitted to participate. Students who engage in conduct that threatens the animals, themselves or others will be refused access to the facility for the remainder of the semester and receive an “F” grade for the course.

**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.
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<tr>
<th>Week</th>
<th>Lecture</th>
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<th>Topics</th>
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