

**ANSC 262/262L**  
**CLINICAL PROCEDURES FOR LARGE ANIMALS**

Lecture: Mondays: 11:30 am – 2:00 pm (Imiloa 117)

Laboratory: Tuesdays 9:00 AM – 2:45 PM

(CRNs 62150, 62178, & 62179)

**INSTRUCTOR:** Jenny Kelly, DVM  
**OFFICE:** Hale Kako'o 129  
**OFFICE HOURS:** by appointment  
**TELEPHONE:** 236-9166  
**EMAIL:** jennyrk@hawaii.edu  
**EFFECTIVE DATE:** Spring 2018, 1/08/18

**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**

The student will learn hands on techniques for animal restraint and clinical procedures. Labs will cover safety concerns of working with large animals and focus on participants becoming comfortable restraining and performing technical procedures on horses and livestock. The student will learn techniques in large animal restraint, husbandry and clinical procedures and be provided some introduction to relevant large animal diseases. Biosecurity and public health will be discussed as they apply to large animal health care and husbandry. The course is appropriate for those entering animal husbandry, veterinary assisting, veterinary technology or animal science fields (4 Cr total).

**Activities Required at Scheduled Times Other Than Class Times:** Offsite laboratories will be required. Some will require special student procedures. A few will extend beyond the scheduled class time.

**STUDENT LEARNING OUTCOMES**

Upon successful completion of ANSC 262/ANSC 262L, the student should be able to:

- 1) Show the ability to safely and successfully restrain horses and livestock.
- 2) Perform basic husbandry and clinical procedures on large animals.
- 3) Successfully perform diagnostic sampling and imaging tasks on large animals.
- 4) Show an acceptable comfort level while working with large animal species
- 5) Discuss biosecurity and isolation procedures necessary in livestock operations.
- 6) Describe common zoonotic diseases of large animals as they apply to animal health and public safety.

## COURSE CONTENT

### *Concepts or Topics*

The student will be exposed to and/or required to show proficiency in most of the following skills:

#### **Equine**

- Haltering
- Catching/leading/tying
- Grooming
- Twitch application and humane use (discussion)
- Flexion testing
- Bandaging
- Venipuncture
- Aseptic joint *prep*
- Mouth Speculum placement (discussion)
- Heart and lung auscultation
- Longeing (demo or discussion)
- Trotting for soundness
- P E / TPR
- Borborygmi auscultation
- Medication administration
- Location of sites for intramuscular injection
- Weight tape/height measurement
- Stud chain placement and humane use (discussion)
- Lip chain placement and humane use (discussion)
- Tail rope application

- Foal restraint (discussion)
- Catheter placement (discussion)
- Urinary catheter placement (discussion)
- Tail wrap placement
- Radiographic positioning
- Appropriate use of hoof testers (discussion)
- AV use (discussion)
- Castration techniques (discussion)

#### **Ruminant**

- Restraint of cattle & sheep/goats
- PE of ruminant species
- Bovine rope halter placement
- Ruminant venipuncture
- Frick speculum placement (disc.)
- Milking/Milk sampling
- Intramuscular injections
- Subcutaneous injections
- Ear tag/tattoo placement (disc.)
- Dehorning (disc.)
- Hoof trimming
- Castration techniques (disc.)
- Obstetrical procedures (disc.)
- Radiography (disc.)

**Students will also gain experience with swine and possibly poultry, depending on availability of farms, ranches, and/or resources.**

## COURSE TASKS

- 1) Attend class & lab at scheduled times.
- 2) **Participate actively** in labs
- 3) Complete readings and assignments
- 4) Complete examinations, quizzes and practical exercises

### *Concepts or Topics*

The student will become familiar with large animal clinical techniques including restraint, diagnostic sampling and imaging, medicating, bandaging, feeding, housing, surgical assisting and anesthesia. Some relevant large animal disease information will be covered. Students will also be given information to aid in communication with livestock producers and the maintenance

of biosecurity at large animal facilities. Laboratories will allow students to be exposed to and attempt various restraint, husbandry and diagnostic sampling techniques for large animals. Class project will allow students to become familiar with relevant infectious and/or zoonotic clinical diseases in large animals and their impact on herd and public health.

## ASSESSMENT TASKS AND GRADING

**EXAMINATIONS:** The student will complete one final (cumulative, comprehensive) examination worth 200 points and one midterm examination, worth 100 points, at the WCC Testing Center. There will also be a lab practical examination worth 100 points. There will also be quizzes on the various topics and assignments worth 100 points. Additionally there will be a disease presentations worth 100 points. **In addition, you must achieve a minimum of 70% on the final to pass the course (lecture) – this verifies mastery of the material.**

**ATTENDANCE Lab:** (100 points) Attendance to laboratories is mandatory and defined as being present in laboratory until excused by the instructor. **Missing a lab will result in an incomplete AVMA required skills list, therefore, failure of the laboratory which would jeopardize graduation from the program.** As discussed, WCC Vet Tech Program relies on outside farms and ranches to provide animals and experiences for hands-on laboratories, therefore, there are **NO MAKE UP LABS.** **Lab grades are based on attendance & active participation – completion of the lab tasks/AVMA skills list.**

**ATTENDANCE Lecture:** (50 points): Attendance is **mandatory** and defined as being present in class for at least 75% of the class period. If a student has an excused absence, a doctor's note or documentation must be given to the instructor within 48 hours of returning to school.

**Additionally, attendance for class guest lectures is imperative. Missing a guest lecture will result in an automatic deduction of 25 points.**

### METHOD OF GRADING (lecture)

The assignment of points will be according to the following:

Exams	400	points
Assignments/quizzes	100	points
Project/presentation	100	points
<u>Attendance</u>	<u>150</u>	<u>points</u>
<b>TOTAL</b>	<b>750</b>	<b>points</b>

### GRADING SCALE

Total Points	Percentage Points	Grade
675-750	90-100	A
600-674	80-89	B
525-599	70-79	C
450-524	60-69	D
<450	0- 59	F

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 examination because of an illness or legitimate emergency (excused absence), you must contact the instructor **within 24 hours** to arrange a time to take a make-up exam. The student must present evidence of the illness or emergency that caused the student to miss the exam. If the student misses an exam for any other reason, the student may be prohibited from taking a make-up exam, thus failing to receive any points for the missed exam. While make-up exams will cover the same content area as a missed exam, the exam format and specific questions may be different.

No retests will be given for any reason.

### **ACADEMIC DISHONESTY**

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

Academic dishonesty includes cheating on exams and plagiarism. See the WCC course catalog for a description of the University's policies concerning academic dishonesty.

### **LEARNING RESOURCES and Other Required Items**

**Required Attire/PPE (For Lab Fieldtrips):** Rubber boots (for proper disinfecting/biosecurity) and Coveralls

**Textbooks:** Large Animal Clinical Procedures for Veterinary Technicians, 3rd ed. By Kristin Holtgrew- Bohling. Elsevier. 2016.  
ISBN: 978-0-323-34113-4

Animal Restraint for Veterinary Professionals, 2<sup>nd</sup> ed. By C. C. Sheldon, et al. Elsevier. 2016.  
ISBN: 978-0-323-03465-4

**Laulima:** Your instructor has created a Laulima website to accompany this course. This website will contain lecture outlines, copies of course forms and syllabi, and links to on-line learning resources. To access, go to <https://laulima.hawaii.edu/portal>. Login using your UH username and password and click on ANSC 262.

### **Additional Information**

#### **STUDENT RESPONSIBILITIES**

The student is expected to participate actively in all laboratory activities, and complete all examinations and course assignments on time. The student must be courteous to those hosting laboratory activities and treat all animals being used for laboratories humanely and with respect. Please be considerate to instructors, animals and other students by turning off any cell phones during class. Any changes in the schedule, such as examination dates, deadlines, etc., will be announced ahead of time on Laulima or in class. 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). No drugs; no drinking alcohol; and no smoking in the WCC van or on farms and stables.

## HOW TO SUCCEED IN THIS CLASS

Labs are an integral part of this course and your **active** participation in them is key to your success. One of the goals of this class is for you to become comfortable working with large animals in a clinical setting. If you are an actively engaged participant in labs and take the opportunities given to learn the techniques and skills required then you will do well. More importantly you will take those skills with you when the course is over. Please attend labs in **appropriate attire**, which includes coveralls and rubber boots. Safety is of the utmost importance when working with large animals. **If for any reason the instructor feels that it is not safe for you to participate due to your attire you will not be allowed to continue with the lab and will not be counted for attendance to that laboratory, which will compromise passing the course.** If you are learning, in the manner you are supposed to, you *will* get dirty; so plan accordingly.

## ACCOMODATION 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 see her at Hale 'Akoakoa 213.

## Special Notification Needed

Notify the instructor if you have allergies or other relevant personal health issues, if you are pregnant, if you feel that you are being asked to do something to which you object, if you witness any unsafe situations, and if you are injured during the lab class.

Weekly Schedule: **Subject to change** as animal owners opt in and opt out of our lab class schedule. Special opportunities may arise. Lecture schedule may also change.

WEEK	TOPIC	READING/REFERENCE MATERIAL
WEEK 1: January 8 <sup>th</sup>	SYLLABUS  INTRO; LIVESTOCK ANIMAL INDUSTRY  EQUINE BEHAVIOR & HANDLING/RESTRAINT METHODS	Holtgrew Ch. 1,2  MOVIE: WILD HORSE WILD RIDE
WEEK 2: January 15 <sup>th</sup>	HOILDAY	ASSIGNED READING:  Holtgrew Ch. 3
WEEK 3: January 22 <sup>ND</sup>	HANDLING/NUTRITION  EQUINE TOPICS	Holtgrew Ch. 2- 4  Holtgrew Ch. 5-11

WEEK 4: January 29 <sup>TH</sup>	EQUINE TOPICS	Holtgrew Ch. 5-11
WEEK 5: February 5 <sup>TH</sup>	EQUINE TOPICS	Holtgrew Ch. 5-11
WEEK 6: February 12 <sup>th</sup>	BOVINE TOPICS: CATTLE BEHAVIOR & RESTRAINT METHODS	MOVIE: TEMPLE GRADIN Holtgrew Ch. 12-15
WEEK 7: February 19 <sup>TH</sup>	HOLIDAY  BOVINE TOPICS	ASSIGNED READING:  Holtgrew Ch. 12-15
WEEK 8: February 26 <sup>th</sup>	BOVINE/SMALL RUMINANTS	Holtgrew Ch. 12-15 & Holtgrew Ch. 16-19
WEEK 9: March 5 <sup>th</sup>	WVC - ASSIGNMENTS	Holtgrew Ch. 3 and other pertinent sections
WEEK 10: March 12 <sup>th</sup>	SMALL RUMINANTS	Holtgrew Ch. 16-19
WEEK 11: March 19 <sup>TH</sup>	SMALL RUMINANTS/CAMELIDS	Holtgrew Ch. 16-19 & Holtgrew Ch. 20-23
WEEK 12: March 26 <sup>th</sup>	SPRING BREAK	
WEEK 13: April 2 <sup>ND</sup>	STUDENT PROJECT PRESENTATIONS	7 presentations
WEEK 14: April 9 <sup>th</sup>	STUDENT PROJECT PRESENTATIONS	7 presentations
WEEK 15: April 16 <sup>th</sup>	CAMELIDS/PORCINE TOPICS	Holtgrew Ch. 20-23 & Holtgrew Ch. 24-27
WEEK 16: April 23 <sup>RD</sup>	PORCINE TOPICS	Holtgrew Ch. 24-27
WEEK 17: April 30 <sup>th</sup>	PORCINE TOPICS  REVIEW	Holtgrew Ch. 24-27

- Final Exam: at WCC Testing Center; exam week begins 5/07/2018

- Last Day to Withdraw without a "W" Grade, Spring – Feb. 1, 2018
- Last Day to Withdraw with a "W" Grade, Spring – April 2, 2018
- Last Day of Instruction, Spring - May 2, 2018
- Finals week – May 5 – 11, 2018