

ANSC 262/262L
CLINICAL PROCEDURES FOR LARGE ANIMALS

Lecture: Mon. & Wed.: 8:30-9:45 am (Imiloa 117)

Laboratory: Fridays 10:00 AM – 3:45 PM
(CRNs 61239, 61318, & 61319)

INSTRUCTOR: Jenny Kelly, DVM
OFFICE: Hale Na'auao 114
OFFICE HOURS: by appointment
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EFFECTIVE DATE: Spring 2016, 1/11/16

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
- 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 sheep/goats
- 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

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 zoonotic clinical diseases in large animals and their impact on public health.

ASSESSMENT TASKS AND GRADING

EXAMINATIONS: The student will complete one final (cumulative, comprehensive) examination and one midterm examination, each worth 100 points, at the WCC Testing Center

ATTENDANCE Lab: (50 points) Attendance to laboratories is mandatory and defined as being present in laboratory until excused by the instructor. Each unexcused absence will result in a **deduction of 25 points from the student's attendance score. Additionally, missing a lab will result in incomplete AVMA required skills list, therefore, failure of the laboratory which would jeopardize graduation from the program.** 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.

ATTENDANCE Lecture: (50 points): Attendance is **mandatory** and defined as being present in class for at least 75% of the class period. Each student is allowed one absence without penalty. Each unexcused absence beyond the one allowed, will result in a deduction of 5 points from the student's attendance score. 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

The assignment of points will be according to the following:

Exams	200	points
Assignments/quizzes	100	points
Attendance	100	points
TOTAL	400	point

GRADING SCALE

Total Points	Percentage Points	Grade
360-400	90-100	A
320-359	80-89	B
280-319	70-79	C
240-279	60-69	D
<240	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. By C. C. Sheldon, et al. Elsevier. 2010. 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 or beepers during class. Any changes in the lab 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. If you are learning, in the manner you are supposed to, you *will* get dirty; so plan accordingly.

ACCOMODATION FOR STUDENTS WITH DISABLITIES

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.

Week	Topic	Reading
1:1/11 & 1/13	Course Introduction	Syllabus
	Horses & Ponies History & PE	Relevant sect. of Ch 5 & 6 Holtgrew (2 nd Ed.); 6 & 8 (3 rd Ed.)
	1/15 FIELD TRIP: none; Group A –meet in annex for Equine Radiology	Ch 7 Holtgrew (3 rd Ed.)
2:1/18 & 1/20	Holiday	
	Large Animal Hospital/Clinics Equine I: Equine handling and restraint	Ch 4 & 5(2 nd); Ch 5 & 6 (3 rd) Ch 6 Sheldon Ch 2 Holtgrew
	1/22 FIELD TRIP: none; Group B –meet in annex for Equine Radiology	Ch 7 Holtgrew (3 rd Ed.)
3:1/25 & 1/27	Equine II - Equine Clinical Procedures	Ch 7 (2 nd) Ch 9 (3 rd) Holtgrew
	Equine Surgical Procedures	Ch 8 (2 nd) Ch 10 (3 rd) Holtgrew
	1/29 FIELD TRIP: J & L Ranch in Waimanalo Group A - Intro to the horse & procedures	

4: 2/1 & 2/3	Equine III: Common Equine Diseases	Ch 9 (2 nd), Ch 11 (3 rd) Holtgrew
	2/5 FIELD TRIP: J & L Ranch in Waimanalo Group B - Intro to the horse & procedures	
5: 2/8 & 2/10	Equine Diseases and Reproduction	Ch 9 (2 nd), Ch 11 (3 rd) Holt Holtgrew (2 nd Ed.); 6 & 8 (3 rd Ed.)
	2/12 FIELD TRIP: TBA	
6: 2/15 & 2/17	Holiday Livestock Industry	Ch 1 Holtgrew
	2/19 FIELD TRIP: Kualoa Ranch, Group A; more horse procedures & feet	
7: 2/22 & 2/24	Livestock Nutrition Vaccine Seminar – all students/all classes	Ch 4 Holtgrew (3 rd)
	2/26 FIELD TRIP: Kualoa Ranch, Group B; more horse procedures & feet	
8: 2/29 & 3/2	Bovine Husbandry & Restraint Bovine Clinical & Surgical Procedures	Ch 2,10 (2 nd); 2,12 (3 rd) Holtgrew Ch 5 Sheldon
	3/4 - Holiday – NO LAB	Ch 11 & 12 (2 nd) Ch 13 & 14 (3 rd)
9: 3/7 & 3/9	Bovine diseases, etc...	Ch 13 (2 nd) and 15 (3 rd) Holtgrew
	3/11 - TBA	
10: 3/14 & 3/16	MIDTERM EXAM at Testing Center Porcine Husbandry & Clinical Procedures	Ch 22, 23 (2 nd); Ch 24,25 (3 rd) Holtgrew
	3/18 FIELD TRIP: Kailua Youth Facility, Group A from 10 to 12; Group B from 12 to 2	Ch 9 Sheldon
11: 3/21 – 3/25	Spring Recess	None
12: 3/28 & 3/30	Porcine Surgical Procedures Porcine diseases	Ch 24,25 (2 nd); Ch 26, 27 (3 rd)Holtgrew
	4/1 FIELD TRIP: Naked Cow Dairy in Waianae for Group A	
13: 4/4 & 4/6	Small ruminants husbandry & restraint	Ch 14(2 nd), 16 (3 rd) Holtgrew
	4/8 FIELD TRIP: Naked Cow Dairy in Waianae for Group B	Ch 7 & 8 Sheldon

14: 4/11 & 4/13	Small Ruminants Procedures and Diseases	Ch 15,16,17 (2nd) Holtgrew And 17,18,19 (3 rd)
	4/15 FIELD TRIP: U. HI Waiale'e Sheep Farm, Group A	Sheep vaccines and dewormers info.
15: 4/18 & 4/20	Camelid Husbandry, Clin. Procedures, etc...	Ch 18-21 (2nd); Ch 20-23 (3 rd) Holtgrew
	4/22 FIELD TRIP: U. HI Waiale'e Sheep Farm, Group B	
16: 4/25 & 4/27	Poultry	Ch 28-31 (3 rd) Holtgrew
	4/29 FIELD TRIP: U. HI Waiale'e Sheep Farm, Group A and Group B	
17: 5/2 & 5/4	Review	
	Annex clean up – all students, all classes	

- Final Exam: at WCC Testing Center; exam week begins 5/09/2016

- Last Day to Withdraw without a "W" Grade, Spring - Feb 1, 2016
- Last Day to Withdraw with a "W" Grade, Spring – Mar 29, 2016
- Last Day of Instruction, Spring - May 4, 2016
- Finals week – May 7 – 12, 2016