ANSC 262/262L  
CLINICAL PROCEDURES FOR LARGE ANIMALS  
Lecture: Tuesday, 11:30 am – 2:00 pm (Palaniakila 102)  
Laboratory: Mondays 9:00 AM – 2:45 PM  
(CRN 64203, 64243, & 64244)  

INSTRUCTOR: Jenny Kelly, DVM  
OFFICE: Hale Kako’o 129  
OFFICE HOURS: by appointment  
TELEPHONE: 236-9166  
EMAIL: jennyrk@hawaii.edu  
EFFECTIVE DATE: Spring 2017, 1/09/17  

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
- Borborygmus 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
**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

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**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.

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**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 quizzes on the various topics worth 50 points and assignments worth 50 points. Additionally, there will be group 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:** (100 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 50 points.

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

- Exams: 300 points
- Assignments/quizzes: 100 points
- Group project/presentation: 100 points
- Attendance: 100 points

**TOTAL:** 600 points
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<tr>
<th>Total Points</th>
<th>Percentage Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>540-600</td>
<td>90-100</td>
<td>A</td>
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<tr>
<td>480-539</td>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>420-479</td>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>360-419</td>
<td>60-69</td>
<td>D</td>
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<tr>
<td>&lt;360</td>
<td>0-59</td>
<td>F</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 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


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 online learning resources. To access, go to https://aulima.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.

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<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>READING/REFERENCE MATERIAL</th>
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<tbody>
<tr>
<td>WEEK 1:</td>
<td>January 10th</td>
<td>ANIMAL/CATTLE BEHAVIOR &amp; RESTRAINT METHODS</td>
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<td>WEEK 2:</td>
<td>January 17th</td>
<td>EQUINE BEHAVIOR &amp; HANDLING RESTRAINT METHODS</td>
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<td>WEEK 3:</td>
<td>January 24th</td>
<td>SYLLABUS LIVESTOCK INDUSTRY NUTRITION EQUINE TOPICS</td>
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<td>WEEK 4:</td>
<td>January 31st</td>
<td>EQUINE TOPICS</td>
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<td>WEEK 5:</td>
<td>February 7th</td>
<td>EQUINE TOPICS</td>
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<td>WEEK 6:</td>
<td>February 14th</td>
<td>BOVINE TOPICS</td>
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<td>WEEK 7: February 21st</td>
<td>BOVINE TOPICS</td>
<td>Holt r w Ch: 12.15</td>
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<td>WEEK 8: February 28th</td>
<td>BOVINE SMALL Ruminants</td>
<td>Holt r w Ch: 12.15 &amp; Holt r w Ch: 16.19</td>
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<td>WEEK 9: March 7th</td>
<td>WWC ASSIGNMENTS</td>
<td>Holt r w Ch: 3 and other pertinent sections</td>
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<tr>
<td>WEEK 10: March 14th</td>
<td>SMALL Ruminants</td>
<td>Holt r w Ch: 16.19</td>
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<tr>
<td>WEEK 11: March 21st</td>
<td>SMALL Ruminants CAMELIDS</td>
<td>Holt r w Ch: 16.19 &amp; Holt r w Ch: 20.23</td>
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<td>WEEK 12: March 28th</td>
<td>SPRING BREAK</td>
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<td>WEEK 13: April 4th</td>
<td>STUDENT PROJECT PRESENTATIONS</td>
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<tr>
<td>WEEK 14: April 11th</td>
<td>STUDENT PROJECT PRESENTATIONS</td>
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<td>WEEK 15: April 18th</td>
<td>CAMELIDS FOR ONE TOPICS</td>
<td>Holt r w Ch: 20.23 &amp; Holt r w Ch: 24.27</td>
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<td>WEEK 16: April 25th</td>
<td>FOR ONE TOPICS</td>
<td>Holt r w Ch: 24.27</td>
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<td>WEEK 17: May 2nd</td>
<td>FOR ONE TOPICS REVIEW</td>
<td>Holt r w Ch: 24.27</td>
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- Final Exam: at WCC Testing Center; exam week begins 5/6/2017
- Last Day to Withdraw without a "W" Grade, Spring – Jan. 30, 2017
- Last Day to Withdraw with a "W" Grade, Spring – April 3, 2017
- Last Day of Instruction, Spring - May 3, 2017
- Finals week – May 6 – 12, 2017