



UNIVERSITY of HAWAII®  
**WINDWARD**  
COMMUNITY COLLEGE

## **ANSC 261L: Anesthesiology and Dentistry for Veterinary Technicians Lab**

2 Credit Hours (CRN 64341)

February 2-4, March 2-4, April 27-29

Thursday-Saturday 9-3

**INSTRUCTOR:** Dr. Jessie Krause  
**OFFICE:** Imiloa 102  
**OFFICE HOURS:** By Appointment  
**TELEPHONE:** 808-236-9125 (Krause office), 237-9106 (annex)  
**EMAIL:** jkrause7@hawaii.edu  
**EFFECTIVE DATE:** Spring 2023

### **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 the Ko'olau region of O'ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.*

### **CATALOG DESCRIPTION**

This course will focus on the clinical skills necessary for safe and effective anesthesia and dental prophylaxis of companion animal patients (dogs and cats). Skills such as intravenous catheter placement, endotracheal intubation, patient preparation and monitoring, and dental prophylaxis under general anesthesia will be stressed. The use and side effects of commonly used sedatives, analgesics and anesthetics will be covered. Postoperative procedures include patient monitoring and charting as well as client education for postoperative care.

**Credits:** 2

**Lab Hours:** 6

**Prerequisites:** Admission in the Veterinary Technology Program and a grade of "C" or better in all completed ANSC courses.

**Co-Requisites:** Co-registration in ANSC 261.

## **Activities Required at Scheduled Times Other than Class Times**

Students will be expected to rotate through some duties outside of the scheduled class time. These will include arriving prior to the beginning of lab to help admit patients and set up, as well as staying after lab as needed to clean up or discharge patients. If fulfilling one of these obligations represents an undue hardship, arrangements for accommodations and alternative duty must be made with the instructor by the second week of class. Students should also note that although the laboratory session is scheduled to conclude at 2:45pm, this is a patient care situation and running late is very common. Students will be required to stay until all their responsibilities for the day are taken care of. Excuses will not be granted for scheduled work, meetings, classes, or other commitments. It is suggested that you plan for the lab to take the entire day to avoid having to reschedule other obligations.

## **STUDENT LEARNING OBJECTIVES**

As a result of taking this course, students can expect to attain the following outcomes:

- Safely and effectively manage patients during all phases of anesthetic procedures.
- Safely and effectively select, operate, and maintain anesthetic delivery equipment and monitoring instruments.
- Safely and effectively operate and maintain dental equipment.
- Understand and integrate all aspects of patient management for common dental procedures in companion animal species.
- Identify and provide appropriate instruments, supplies and environment to maintain asepsis during dental procedures.
- Be able to educate clients on proper home dental care for their pets.

## **COURSE TASKS**

- Attend labs weekly as scheduled.
- Be familiar with lecture content and other course materials prior to coming to lab.
- Complete all required assignments.
- Perform all required skills for the course.
- Take all laboratory assessments and practicum.

## ASSESSMENT TASKS AND GRADING

### POINT VALUES (see details for each section below)

- Attendance and Participation - 100 points
- Clinical Skills – 100 points
- Laboratory Assignments and Mid-Term Exam – 100 points
- Practicum – 100 points

### GRADING SCALE

#### Total Points and Grade Equivalent

>= 360	A
320-359	B
280-319	C
240-279	D
<240	F

\*Please note that a grade of 70% is required to pass this course.

### Attendance and Participation:

**Laboratory attendance is mandatory.** If a student has an emergency, is too ill to come to lab, or has been ordered to quarantine due to Coronavirus exposure, they must contact the instructor and at least one team member as soon as possible. A doctor's note or other documentation of extenuating circumstances will be required for any absence and should be provided within 48 hours of returning to class. Any unexcused absence will result in failure of the course.

**-Tracking.** Attendance will be monitored using the AVImark practice management software during the semester. It is the student's responsibility to remember to clock in and out of lab. If the student forgets to clock in, it will be assumed they were tardy or absent.

**-Tardiness.** Students arriving more than ten minutes late (after 9:10) must contact the instructor (please text) and a team member as soon as they know they will be late. It is up to the student to make up the missed work to teammates (i.e. take on an extra duty). The team should discuss with the instructor if an agreement cannot be reached. Points will be deducted for tardiness as follows:

- 5 points for each time the student is tardy by 5 minutes or less
- 10 points for each tardy between 5 and 15 minutes late
- 15 points for being tardy greater than 15 minutes.

**-Breaks:** Students are allowed to take breaks for a maximum of 15 minutes during the laboratory session to eat, use the restroom, etc. provided the following conditions are met:

- There are no outstanding duties that need to be completed by the student's laboratory group at that time.
- The student notifies the instructor or instructor's assistant AND at least one laboratory partner where they will be.

Failure to follow this procedure may result in an unexcused absence.

**Participation:** Students are expected to participate with their full attention in all laboratory activities and to follow all lab checklists and protocols as instructed. Engagement in activities, including the use of cellular devices, which are not directly related to patient care OR failing to follow lab protocols may result in point deductions as well as demerits as outlined in the Veterinary Technician Student Handbook.

### **Clinical Skills:**

Students will be graded on clinical competency and improvement throughout the course. Some of the criteria for this score include:

- Performs skills competently and fluently.
- Has good knowledge base for skills.
- Shows improvement.
- Is organized and ready to go.
- Is proactive and prepared for the next task.
- Completes calculations correctly.
- Completes the following required clinical skills checklist.

### Skills Checklist for ANSC 261L

Instructor initials must be obtained on the day procedure was performed.

<b>Skills</b>
Administer anesthetic related drugs (injection, ETT, mask)
Maintain emergency medical supplies/crash cart
Perform dental prophylaxis
Create diagnostic dental radiographic images
Chart pathological dentition
Calculate dosages of appropriate anesthetic drugs
Place intravenous catheter (cephalic)
Place intravenous catheter (saphenous)
Maintain and care for catheter
Place endotracheal tubes in patients
Use clinical signs and equipment to monitor patient status
Maintain and operate esophageal stethoscope
Maintain and operate anesthesia machine - rebreathing /non-rebreather circuit

Maintain and operate scavenging system
Maintain and operate oxygen source
Maintain and operate electrocardiograph
Maintain and operate the pulse oximeter
Maintain and operate the capnograph
Maintain and operate respiratory monitors
Maintain and operate blood pressure monitor: oscillometer
Maintain and operate blood pressure monitor: doppler
Maintain and operate laryngoscope
<b>Group:</b>
Perform cystocentesis to collect urine
Demonstrate administering an enema
Perform catheterization on male dog
Demonstrate gastric intubation
Perform Coagulation Tests: BMBT
Collect, prepare, and evaluate canine vaginal smears (coordinate with Sam)

### **Laboratory Assignments and Mid-Term Exam:**

**Assignments:** Assignments may be given throughout the course. Each assignment will be clearly labeled with instructions, point value, and due date. Unannounced quizzes may be administered at the beginning of lab to determine whether the student has the necessary knowledge to do a procedure.

**Mid-Term Exam:** A mid-term exam will be given prior to Spring Break and will be worth 50 points.

### **Practicum:**

A practicum will be given with a total point value of 100. Identification and proper use of dental and anesthetic equipment, proper drawing up and logging of drugs, and other skills will be covered.

**Policy on Makeup Exams:** Students must take the practicum at their scheduled time. Make-up exams will not be offered. No retests will be given.

## LEARNING RESOURCES

### Required

A wristwatch with second hand or digital second reading.

Veterinary Dentistry A Team Approach: Holmstrom S.E. 3<sup>rd</sup> Edition, Elsevier Saunders, St. Louis MO.

Anesthesia and Analgesia for Veterinary Technicians: Thomas, J. and Lerche, P. Elsevier Mosby, St. Louis, MO. 5<sup>th</sup> Edition.

### Recommended

Veterinary Anesthesia and Analgesia Support Group <http://www.vasg.org>. This is an extensive free resource, geared to the veterinary practitioner and nursing staff, covering all things related to anesthesia of the veterinary patient.

The America Veterinary Dental College (AVDC) <http://www.avdc.org>. This is the clinical specialist organization for veterinary dentists, recognized by the American Board of Veterinary Specialties of the American Veterinary Medical Association.

## ADDITIONAL INFORMATION

### Student Responsibilities

- **The student is expected to attend each laboratory session in its entirety (until dismissed by the instructor), participate in all course activities, and complete all examinations and course assignments on time.**
- **Communication**: The instructor will communicate with students primarily through email or the Laulima website, as well as announcements in lab. Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in class or on Laulima. It is the student's responsibility to be informed of these changes.
- It is the student's responsibility to be informed about deadlines concerning registration (e.g., last day for withdrawal).
- It is the student's responsibility to be informed of announcements made and to obtain copies of any assignments handed out while the student is absent.
- It is the student's responsibility to be aware of and follow all rules, policies and procedures as stated in the syllabus, the laboratory handbook, signs posted in the Annex, the WCC Vet Tech Student Handbook, or via other written communication by the instructor. Failure to follow rules, or any UH/WCC policies, will result in a point deduction or failure of the course, as determined by the instructor. The instructor may also give demerits for such violations as provided for in the WCC Veterinary Technology Program Student Handbook. The instructor reserves the right to change, modify or add to rules during the semester if deemed necessary.

Students will be notified in writing of any changes.

- **Cell phones or other wireless devices are not to be used during the laboratory unless being utilized directly for patient care (i.e. to look things up, use the calculator or timer, etc.). Misuse of cell phones or other wireless devices includes texting, checking emails, surfing the internet, or any other activity that is not directly related to patient care. The instructor reserves the right to prohibit the use of cellular devices in the classroom if these guidelines are not being followed.**
- Because dentistry labs involve working with hazardous materials and instruments, students MUST wear close-toed shoes. In addition, some lab activities will require students to wear gloves and safety glasses (provided by the college). Scrubs are required at all times. Lab coats must be worn at appropriate times. 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 an “F” grade for the course.

Behaviors recommended for success in this lab:

- Take initiative for your own learning.
- Help other team members and classmates.
- Treat all classmates and instructors with respect and courtesy.
- Arrive for laboratory on time and ready to go.
- Respond respectfully when asked to do a task.
- Behave professionally at all times. Do not complain, gossip, or speak negatively about others (in or outside the program).
- Accept constructive criticism.
- Follow instructions.
- Ask for help or clarification when needed.

## DISABILITIES ACCOMMODATIONS

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 Accessibility Counselor to discuss reasonable accommodations that will help you succeed in this class. Jodi A. K. Asato can be reached at (808) 235-7472, [wccdsso@hawaii.edu](mailto:wccdsso@hawaii.edu), or you may stop by Hale Kāko‘o 105 for more information.

## SEX DISCRIMINATION AND GENDER-BASED VIOLENCE RESOURCES (TITLE IX)

Windward Community College is committed to providing a learning, working, and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking.

If you or someone you know is experiencing any of these, WCC has staff and resources to support and assist you. To report an incident of sex discrimination or gender-based violence, as well as receive information and support, please contact one of the following:

Jojo Miller, Confidential Advocate  
 Phone: (808) 348-0663  
 Email: [advocate@hawaii.edu](mailto:advocate@hawaii.edu)  
 Office: Hale Kāko‘o 110

Desrae Kahale, Mental Health Counselor & Confidential Resource  
 Phone: (808) 235-7393  
 Email: [dkahale3@hawaii.edu](mailto:dkahale3@hawaii.edu)  
 Office: Hale Kāko‘o 101

Karen Cho, Deputy Title IX Coordinator  
 Phone: (808) 235-7404  
 Email: [kcho@hawaii.edu](mailto:kcho@hawaii.edu)  
 Office: Hale ‘Alaka‘i 120

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be handled. My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

For more information regarding sex discrimination and gender-based violence, the University’s Title IX resources and the University’s Policy, Interim EP 1.204, go to [manoa.hawaii.edu/titleix/](http://manoa.hawaii.edu/titleix/)

## ACADEMIC INTEGRITY

Academic dishonesty includes cheating on exams and plagiarism. Work submitted by a student must be the student’s own work. The work of others should be explicitly marked, such as through use of quotes or summarizing with reference to the original author.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequences:

Students will receive a failing grade for plagiarized assignments or tests.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

## ALTERNATE CONTACT INFORMATION

If you are unable to reach your instructor, please contact Dr. Kelly at [kellyrk@hawaii.edu](mailto:kellyrk@hawaii.edu).

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

- Location: Alaka‘i 121
- Phone: (808) 235-7422

**\*\*Please note that the syllabus, course schedule, assignments and due dates are subject to change. Students will be given advance notice of any changes.**