



UNIVERSITY of HAWAII®
WINDWARD
COMMUNITY COLLEGE

ANSC 261L
Anesthesiology and Veterinary Dentistry for
Veterinary Technicians Lab
2 Credits (CRN 60158 and 60159)
Thursday and Friday 9:00am – 2:45pm

INSTRUCTOR: Amy Compton, DVM
Kathleen Baxter, RVT

OFFICE: Kako'o 127, Imiloa 136

OFFICE HOURS: By appointment

TELEPHONE: 808-241-9106 (Vet Tech Annex) EMAIL: comptona@hawaii.edu

EFFECTIVE DATE: Spring 2019 kabaxter@hawaii.edu

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. (6 hours laboratory)

Pre-Requisite(s): Admission in the Veterinary Technology Program and a grade of 'C' or better in all completed ANSC courses.

Co-Requisite(s): 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; staying after lab 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 OUTCOMES

The student learning outcomes for the course are:

- 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.

COURSE CONTENT

- Commonly used anesthesia and dental equipment
- Proper collection and handling of laboratory specimens
- Laboratory safety (OSHA, SDS)
- Dental anatomy of various species
- Dental disease
- Anesthetic protocols
- Anesthetic monitoring

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
- Complete all required skills for the course
- Take the laboratory practicum

ASSESSMENT TASKS AND GRADING

METHOD OF GRADING – ANSC 261L

In order to receive a passing grade for ANSC 261L, the student **must do** all of the following, **no exceptions**:

- Complete all required assignments
- Take all assessments/practicum
- Have all required clinical skills for the laboratory section in the Accreditation Manager checked off

POINT VALUES

- Attendance - 100 points
- Clinical Skills – 100 points
- Laboratory exercises and assignments – 100 points
- Practicum – 100 points

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
- Does calculations correctly

Assignments: Assignments may be given throughout the course. Each assignment will be clearly labeled if it is required, optional, take-home or in lab, point value etc. Unannounced quizzes may be administered at the beginning of lab to determine whether the student has the necessary knowledge to do a procedure.

Exams: 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, identification of radiographs and other skills will be covered.

GRADING SCALE

Total Points and Grade Equivalent

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

Policy on Make-Up Exams:

Students must take the practicum at their scheduled time. Make-Ups cannot be offered. **No retests will be given for any reason.**

LEARNING RESOURCES

Required

A wrist watch with second hand or digital second reading.

Veterinary Dentistry A Team Approach: Holmstrom S.E. 2nd Edition, Elsevier Saunders, St. Louis MO

Anesthesia and Analgesia for Veterinary Technicians: Thomas, J. and Lerche, P. Elsevier Mosby, St. Louis, MO. 4th Edition.

Veterinary journal articles and ACT Veterinary Training Videos – as assigned.

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 American 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.

ATTENDANCE POLICY

Attendance to the laboratory is mandatory. Only one excused absence is permitted. If a student has an emergency or is too ill to come to lab, 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 within 48 hours of returning to class. Any additional 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/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: 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.

STUDENT RESPONSIBILITIES

- The student is expected to participate in all course activities and complete all examinations and course assignments on time.
- Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in class or on the Laulima website. 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).
- Communication: The instructor will communicate with students through email, the Laulima website and announcements in lab. It is the student's responsibility to be informed of any announcements made when the student is absent.
- It is the student's responsibility to obtain copies of any assignments handed out when 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 (see additional information below), 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 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.
- **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. Cell phones 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.).**
- Because dentistry labs involve working with hazardous materials, students MUST wear close-toed shoes. In addition, some lab activities will require students to wear gloves, face masks, and safety glasses (provided by the college). Scrubs are required at all 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.
- Students are expected to be familiar with and follow the Standard Operating Procedures of the WCC Veterinary Technology Program. Violations of the SOP will result in demerits as provided for in the Student Handbook.

DENTISTRY LAB PROCEDURES

- At 9:00am or when all patients have been dropped off, group meeting will be called by instructor to assign patients to teams and make announcements
- Students work in assigned teams to perform pre-op physical exam, and run any necessary lab work.
- **Please check with instructor before performing lab work. First year nursing students may have already done so.** Animals seven and older will have labs done routinely: younger animals will be tested if medically indicated.
- Students will divide duties for the day as follows:
 - Anesthetist** – responsible for induction, monitoring, and maintaining anesthesia, and recovery.
 - Dental cleaning** – responsible for performing the dental prophylaxis, describing pathology to the person charting dentition. Administering local blocks and assisting veterinarian in extractions.
 - Circulating nurse – charting** – responsible for setting up and breaking down wet table for procedure, locating supplies, charting all pathology of animal's dentition.
 - Circulation nurse – radiology** – responsible for setting up and taking radiographs of the animal's dentition. An attempt will be made to do full mouth radiographs.
- Students are to determine **ASA status** and gather all supplies needed for induction and the dental procedure. Portable trays are provided for each patient to help keep supplies in one place. The team will select an anesthesia protocol and do the necessary calculation after approval from the instructor. **Induction agents will be determined at the beginning of class.**
- Once labs are reviewed and drug protocols/calculations are approved by the veterinarian, students will assist in drawing up and labeling drugs with patient name, drug name and quantity, and recording them in the controlled drug log as necessary.
- Procedures will be scheduled taking patient factors into account, but priority will be given to student teams who are ready to go first.
- Each team must fill out discharge orders and fill meds to go home with their patient; wash their instruments; clean up their own messes, and clean the wet table and dental equipment used for their patient.
- When all procedures are finished, one team takes responsibility for general cleanup and restocking; one team is responsible for helping discharge patients in the late afternoon. Students must also take turns being responsible for arriving early or staying late to admit or discharge patients.
- When all procedures are finished an assigned group will take responsibility for general cleanup and restocking.

LABORATORY SAFETY RULES

- Be familiar with lab safety procedures and take appropriate precautions at all times to ensure the safety of other students, instructors and patients.
- Follow all instructions carefully, especially when hazardous materials are being used.
- Know the locations of important safety equipment: eyewash, safety shower, fire extinguisher, and first aid kit.
- Report **ALL** injuries, including scratches, needle sticks or ANYTHING that breaks the skin, to the instructor immediately. Fill out 'Incident' form if instructor determines it is necessary.
- Dress appropriately for lab. Closed-toe shoes are required for ALL labs.
- Wear all Personal Protection Equipment (PPE) when performing tasks including gloves, mask, goggles, lab coat for dental cleanings; lead apron, thyroid shield, dosimetry badge for dental radiology.
- Report any hazardous conditions (e.g. chemical spills or broken glass) to the instructor immediately.
- **NO FOOD OR DRINK ARE ALLOWED IN THE ANNEX**
- Chemicals used in lab may be poisonous, corrosive, or flammable. No chemicals, even those known to be safe, should be ingested or touched with un-gloved hands unless you are specifically directed to do so by your instructor.
- Know how to safely operate all lab equipment and tools (e.g., microscopes, scalpels, and hematology supplies). Safe usage will be demonstrated by your instructor.
- **Clean all lab supplies and return them to their proper location before leaving lab.**
- Treat all organisms, living or dead, with care and respect. Use gloves when handling dissected specimens.
- Place broken glass, sharps, and dissected specimens in the appropriate receptacles (NOT IN THE TRASH!)
- Unless otherwise instructed, chemical wastes should NOT be disposed of down the drain.
- Human and animal tissues and bodily fluids (e.g., saliva and blood) must be disposed of in appropriate bio-hazard containers (NOT IN THE TRASH!).
- Wash your hands immediately following each lab to reduce the possibility of contamination or infection.
- Syringes are not to be detached from needles for disposal. Place the entire needle and syringe in the sharps container.
- Microscope slides, the plastic attachment on IV infusion sets or any non-metal item that can potentially puncture a plastic trash bag must be placed in containers marked "Non-metal sharps." Any non-metal sharps contaminated with bodily fluids or biohazardous material is to be placed in the regular sharps container.
- If you are unsure about proper safety protocol, ASK.

DISABILITIES ACCOMMODATION STATEMENT

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.

TITLE IX

Title IX prohibits discrimination on the basis of sex in education programs and activities that receive federal financial assistance. Specifically, Title IX prohibits sex discrimination; sexual harassment and gender-based harassment, including harassment based on actual or perceived sex, gender, sexual orientation, gender identity, or gender expression; sexual assault; sexual exploitation; domestic violence; dating violence; and stalking. For more information regarding your rights under Title IX, please visit: https://windward.hawaii.edu/Title_IX/.

Windward Community College is committed to the pursuit of equal education. If you or someone you know has experienced sex discrimination or gender-based violence, WCC has resources to support you. To speak with someone confidentially, contact the Mental Health & Wellness Office at 808-235- 7393 or Kaahu Alo, Designated Confidential Advocate for Students, at 808-235-7354 or kaahualo@hawaii.edu. To make a formal report, contact the Title IX Coordinator, Karla K. Silva-Park, at 808-235-7468 or karlas@hawaii.edu.

ACADEMIC DISHONESTY

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

ALTERNATE CONTACT INFORMATION

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: Alakai 121

Phone: 808-235-7422

Email: wccaa@hawaii.edu

261L Lab Schedule: Subject to Change

Date	Class
January 10 & 11	Safety and PPE, Lab Handbook, Dental Instruments, Dental Machines, Dental Radiology Establish flow for labs.
January 17 & 18	3 dental each lab
January 24 & 25	3 dentals each lab
Jan. 31 & Feb. 1	3 dentals each lab
February 7 & 8	3 dentals each lab
February 14 & 15	3 dentals each lab
February 21 & 22	Western Veterinary Conference
Feb. 28 & Mar. 1	3 dentals each lab
March 7 & 8	3 dentals each lab
March 14 & 15	3 dentals each lab
March 21 & 22	Spring Break
March 28 & 29	Place Male Canine Urinary Catheter 3 dentals each lab
April 4 & 5	Demonstrate Enema administration 3 dentals each lab
April 11 & 12	Demonstrate Gastric Intubation 3 dentals each lab
April 18 & 19	Practicum for both labs on Thursday Good Friday No lab
April 25 & 26	3 dentals each lab

❖ Clean-up will be after lecture class Wednesday May 1st.

Revised 1/13/19

Skills Checklist for ANSC 261L

Required Hands-on Skills

Name: _____

Skills	Animal	Date	Instructor
Administer anesthetic related drugs (injection, ETT, mask)			
Maintain emergency medical supplies/crash cart			
Perform first aid and cardiopulmonary resuscitation (simulation acceptable)			
Use resuscitation bag			
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 & equipment to monitor patient status			
Complete controlled substance log			
Maintain & operate anesthesia machine: rebreathing circuit			
Maintain & operate anesthesia machine: non-rebreather			
Maintain and operate scavenging system			
Maintain and operate oxygen source			
Utilize clinical signs & appropriate equipment to monitor patient status during anesthetic procedures			
Maintain & operate electrocardiograph			
Maintain & operate the pulse oximeter			
Maintain & operate the capnograph			
Maintain & operate respiratory monitors			
Maintain & operate blood pressure monitor: oscillometer			
Maintain and operate blood pressure monitor: doppler			
Maintain and operate laryngoscope			
Group:			
Perform cystocentesis to collect urine			
Administer enema			
Catheterize male dog			
Gastric Intubation			