



UNIVERSITY of HAWAII®  
**WINDWARD**  
COMMUNITY COLLEGE

## **ANSC 252L, Diagnostic Imaging for Veterinary Technicians Lab**

Credits: 1 (CRN 60008; 60009)

CRN 60008 - Wednesday: 10:00-3:00pm

CRN 6009 - Thursday: 10:00-3:00pm

**INSTRUCTOR:** Matthew Tsuda

**OFFICE:** Hale Imiloa 104

**OFFICE HOURS:** M 1:00-2:00

**TELEPHONE:** 808-343-7507      **EMAIL:** mtsuda@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 lab trains students to safely and effectively use x-ray technology to obtain diagnostic radiographs of the skeletal- and soft anatomy of companion animals.

### **STUDENT LEARNING OUTCOMES**

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

1. Utilize radiographic equipment to expose and develop radiographic films in order to create diagnostic radiographic images.
2. Properly label and file radiographic films and complete radiographic logs and reports.
3. Utilize radiographic contrast agents to produce diagnostic images of urinary and GI organs.
4. Perform radiographic techniques utilized in screening for canine hip dysplasia.
5. Demonstrate proper maintenance and troubleshooting of radiographic equipment.
6. Position companion animals safely and humanely for radiographic studies.

### **COURSE TASKS**

- |  |                                 |
|--|---------------------------------|
| - Attend lab at scheduled times            | - Complete 5 quizzes            |
| - Complete assigned readings prior to labs | - Complete 1 class presentation |
| - Participate in lab activities            | - Complete 1 practicum          |

## ASSESSMENT TASKS AND GRADING

### ATTENDANCE: 20 points

Attendance will be taken at the beginning of each class period. Both tardiness and early departure from class are considered forms of absenteeism. Any unexcused absences may result in full loss of points. Cases of subsequent unexcused absences will result in demerits. Any assignments missed due to excused absences require documentation of proof of absence. Please refer to the student handbook for attendance policies.

### LAB NOTEBOOK: 30

The lab notebook must be completely filled and submitted on the day of the practicum. Information on completion can be found within the lab notebook.

### QUIZZES: 50 points total

Quizzes will be held at the beginning of lab. There are five in total.

### PORTFOLIO PRESENTATION: 50 points total

Students will create a portfolio of at least 4 radiographs taken throughout the semester to be presented to the class. Details to be discussed in class and on the Laulima assignment page. **You need a USB flash drive to be able to save images from the computer.**

### IACUC and RADIOLOGY LOG: 50 points total

The IACUC and radiology log must be completed before the end of every lab as per regulation. First offense is a loss of 10 points for the entire group. Every subsequent instance of incompletion for either log will result in a loss of 20 points.

GRADE	POINTS
A	270 - 300
B	240 - 269
C	210 - 239
D	180 - 209
F	<180

### PRACTICUM: 100 points

The final practicum is worth 100 points.

## LEARNING RESOURCES

1. Lavin's Radiography for Veterinary Technicians, 7<sup>th</sup> Edition by Marg Brown and Lois Brown ISBN-13: 978-0323413671 (Elsevier)
2. 252L Notebook Summer 2023 – Matthew Tsuda

## ADDITIONAL INFORMATION

MySuccess: Students may be referred for extra help or advising through MySuccess. Students can also explore resources at MySuccess.Hawaii.edu and [windward.hawaii.edu/MySuccess](https://windward.hawaii.edu/MySuccess)

Ka Piko is WCC's academic support hub. Please visit: <https://windward.hawaii.edu/kapiko/>

TRiO student support services: [https://windward.hawaii.edu/TRIO/Student\\_Support\\_Services.php](https://windward.hawaii.edu/TRIO/Student_Support_Services.php)

## 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. Roy Inouye can

be reached at (808) 235-7448, [royinouy@hawaii.edu](mailto:royinouy@hawaii.edu), or you may stop by Hale Kāko‘o 106 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

Karla K. Silva-Park, Title IX Coordinator

Phone: (808) 235-7468

Email: [karlas@hawaii.edu](mailto:karlas@hawaii.edu)

Office: Hale ‘Ākoakoa 220

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**

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 consequence(s): Students will receive a failing grade for plagiarized assignments.

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

Week	Date	Primary Topic	Secondary Topic	Due
1	W – 5/24 R – 5/25	Radiology Introduction, Safety, and Settings.	None	
2	W – 5/31 R – 6/1	Abdominal/Thorax	Measuring	Quiz 1
3	W – 6/7 R – 6/8	Forelimb	Contrast and Exposure	Quiz 2
4	W – 6/14 R – 6/15	Pelvic Limbs/PennHIP	Portable Radiology	Quiz 3
5	W – 6/21 R – 6/22	Specialty - Dental	Skills Practice Continue Pelvic Limbs	Quiz 4
6	W – 6/28 R – 6/29	Spine and Skull	Portable Radiology	
7	W – 7/5 R – 7/6	Specialty - Barium	Ultrasonography	
8	W – 7/12 R – 7/13	Large Animal/Exotics	Skills Practice	Quiz 5
9	W – 7/19 R – 7/20	Portfolio Presentation	Skills Practice	Portfolio Presentation
10	W – 7/26 R – 7/27	Final Practicum	None	Lab Notebook

**252L Skills List**

DATE	INITIAL	Skill	Type	Req.
		Implement and observe recommended radiation safety measures	H	R
		Implement radiographic quality control measures	K	R
		Properly utilize radiographic technique charts	K	R
		Demonstrate an understanding of the modification of diagnostic imaging techniques as they apply to mice, rats, guinea pigs, lizards, and amphibians	K	R
		Position live animals and produce diagnostic radiographic images: dogs	H	R
		Position live animals and produce diagnostic radiographic images: cats	H	R
		Appropriately label, file, and store images	H	R
		Demonstrate an understanding of completing a radiographic log for systems, reports, files, and records	K	R
		Perform a radiographic contrast study	H/G	R
		Perform on a sedated canine radiographic techniques utilized in screening for canine hip dysplasia	H/G	R
		Demonstrate proper maintenance of radiographic equipment, including recognition of faulty equipment operation	K	R
		Use and care of ultrasonography equipment	H	NR
		Use and care of endoscopic equipment	H	NR

**R – REQUIRED****NR – NOT REQUIRED****H – HANDS ON (REQUIRES PHYSICAL COMPLETION)****K – KNOWLEDGE BASED**