



UNIVERSITY of HAWAII®  
**WINDWARD**  
COMMUNITY COLLEGE

## **Diagnostic Imaging for Veterinary Technicians**

Credits: 3 (CRN: 64336)

Online Asynchronous

**INSTRUCTOR:** Matthew Tsuda

**OFFICE:** Imiloa 104

**OFFICE HOURS:** M 1:00-200pm

**TELEPHONE:** 808-343-7507      **EMAIL:** mtttsuda@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 covers the nature and use of x-ray technology in veterinary technology. Students are also given an overview of alternative imaging techniques (ultrasound, CT scans, and digital radiography) as well as an introduction to the radiography of large animals and exotics. (3 hours lecture).

### **STUDENT LEARNING OUTCOMES**

Upon successful completion of ANSC 252, the student will know how to:

1. Describe the uses and functioning of various types of medical imaging equipment.
2. Implement and observe recommended radiation safety measures.
3. Evaluate radiographic images for proper radiographic technique and patient positioning.
4. Explain the clinical uses of alternative imaging technologies.

### **COURSE TASKS**

This course will be conducted in a Hybrid/Online Synchronous format. We will meet weekly to discuss the topics listed in the course schedule near the end of this syllabus. ANSC 252 is paired with a laboratory class where you will apply the knowledge learned in this course.

## ASSESSMENT TASKS AND GRADING

### WORKSHEETS: 30 points

There will be one worksheet to complete. This worksheet can be answered using the McCurnin's textbook and can be submitted via Laulima or in-person.

### QUIZZES: 50 points

Quizzes will be proctored via Laulima. There are 5 quizzes total. All quizzes must be submitted with an accompanying Loom recording to be valid for points.

### EXAM REVIEWS: 40 points

Students are expected to complete reviews prior to each exam. Each student will write 20 questions with the CORRECT answers from the chapters for the upcoming exam. Exam reviews must be submitted onto the designated Laulima page **and** Google Drive folder.

### EXAMS: 150 points

There are two exams worth 50 and 100 points. The final exam is cumulative. All exams must be submitted with an accompanying Loom recording to be valid for points.

### Total 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. Bassert, Beals, Samples. McCurnin's Clinical Textbook for Veterinary Technicians and Nurses. Tenth Edition. Elsevier. ISBN: 978-0323722001

## 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/)

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

Week	Date	Topic	Chapter	Assignments
1	1/09	Introduction, Atoms and Electricity	1	
2	1/16	Diagnostic X-ray, Radiation Safety	2, 3	
3	1/23	Imaging on Film	4	Quiz 1
4	1/30	Producing the Image	5	
5	2/6	Optimizing the Image	6	Quiz 2
6	2/13	Processing the Image	7	Exam Review 1
7	2/20	Review	-	
8	2/27	Exam 1	-	
9	3/6	Digital Imaging	8	
10	3/13	<b>SPRING BREAK</b>	-	
11	3/20	Quality Control	9	
12	3/27	Ultrasonography, Fluoroscopy	10, 11	Quiz 3
13	4/3	Large Animal	24	Quiz 4
14	4/10	Exotics	25	
15	4/17	CT	12	Quiz 5
16	4/24	MRI, Nuclear Medicine	13, 14	252 Worksheet, Exam Review 2
17	5/1	Final Review	-	
18	5/8	Finals Week	-	