ANSC 252L Diagnostic Imaging for Veterinary Technicians Lab
Credits: 1 (CRN: 63050/63051)
TH or FR from 10:00-3:00

INSTRUCTOR: Sam Geiling, RVT
OFFICE: Hale Kako’o 128
OFFICE HOURS: Tue 2-3 and Wed 10:00-noon (or by apt)
TELEPHONE: 808-271-7883 (cell)
EMAIL: scraddoc@hawaii.edu
EFFECTIVE DATE: Summer 2018

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.

Activities Required at Scheduled Times Other Than Class Times: None

STUDENT LEARNING OUTCOMES
As a result of taking this course, students can expect to attain the following outcomes:
- Utilize radiographic equipment to expose and develop radiographic films in order to create diagnostic radiographic images.
- Properly label and file radiographic films and complete radiographic logs and reports.
- Utilize radiographic contrast agents to produce diagnostic images of urinary and GI organs.
- Perform radiographic techniques utilized in screening for canine hip dysplasia.
- Demonstrate proper maintenance and troubleshooting of radiographic equipment.
- Position companion animals safely and humanely for radiographic studies.

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

LEARNING RESOURCES
ASSESSMENT TASKS AND GRADING

<table>
<thead>
<tr>
<th>Task</th>
<th>Points</th>
<th>Letter</th>
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</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>20</td>
<td></td>
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<tr>
<td>Lab Notebook</td>
<td>50</td>
<td>A</td>
</tr>
<tr>
<td>Quizzes</td>
<td>50</td>
<td>B</td>
</tr>
<tr>
<td>Presentation</td>
<td>40</td>
<td>C</td>
</tr>
<tr>
<td>Exams</td>
<td>40</td>
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<tr>
<td><strong>Total</strong></td>
<td>200</td>
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**Points and Letter Grades:**
- 179-200: 90-100% - A
- 142-178: 80-89% - B
- 139-141: 70-79% - C

**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. Students are **NOT entitled to any unexcused absences and will be docked 10 points for an absence.** If a student has an emergency or is too ill to come to class, the instructor should be notified via email prior to class. A doctor’s note or documentation of extenuating circumstances will be required within 48 hours of the absence. Students with more than 5 absences, excused or unexcused, may have points deducted or receive an “F” grade in the class. For absences due the observance of religious holidays, jury duty, and for calls to active duty, students must confer with the instructor prior to the absence. Students absent from class for any reason are still responsible for all work missed. In the event of severe weather or other emergency, students are expected to check-in via Laulima for instructor updates. Students who stop attending class, but do not formally withdraw, may receive an "F" grade and face financial aid aid repercussions in future semesters as a result.

**LAB NOTEBOOK:** 50 points total. Due at the practicum.

**QUIZZES:** 50 points total – Students should expect a quiz most lab periods and are expected to keep up with the material and be prepared every class. Each quiz is worth 10 points.

**PRESENTATION:** 50 points total – Students will create a portfolio of at least 5 radiographic images from their group (each person in the group must use different radiographs) and describe the good and not-so-good parts of the image, and what could be done to improve the image.

**EXAMINATIONS:** The final, hands-on practicum is worth 100 points.

**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

Student Resources
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

Quizzes will be given at the start of class and take about 5-10 minutes. If you are late, you will not be allowed to take the quiz.

If you miss an exam or quiz due to a serious illness or legitimate emergency, you must contact
the instructor **within 48 hours** to arrange a time to take a make-up exam/quiz. You may need to provide a doctor’s note. The make-up exam may not be the same exam that was given to other students and will need to be taken at the WCC Testing Center within a timeframe agreed upon by the instructor and student.

The instructor may request that the student 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.

**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 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 ‘Ākoakoa 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, Windward CC has resources to support you. To speak with someone confidentially, contact Karla Silva-Park, Mental Health Counselor, at 808-235-7468 or karlas@hawaii.edu 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 at 808-235-7393 or wcctix@hawaii.edu.

**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. Students can upload papers to [http://www.TurnItIn.com](http://www.TurnItIn.com) to have papers checked for authenticity, highlighting where the paper potentially fails to appropriately reference sources. In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequence(s): **Students will receive a failing grade for academic dishonesty.**

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

**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:

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*Windward Community College is an equal opportunity, affirmative action institution.*
# ANSC 252 Lab Schedule
## Summer 2018

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<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>LECTURE</th>
<th>LAB TOPIC</th>
<th>READING</th>
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</thead>
</table>
| **WEEK 1** | MAY 22 | Intro and Overview  
Positioning Overview | Safety  
Intro | Ch 15 |
| **WEEK 2** | MAY 29 | Atoms, Electricity, X-ray production, Safety  
Abd/Thx | Abd  
Thx | Ch 1-3  
Ch 16-17 |
| **WEEK 3** | JUNE 5 | Producing, Optimizing Image, Digital  
Forelimb  
Quiz 1 | Forelimb  
Quiz 1 | Ch 5, 6, 8  
Ch 18 |
| **WEEK 4** | JUNE 12 | Film, Image processing  
Pelvis (OFA, PennHIP)  
Quiz 2 | Pelvis, pelvic limb  
Quiz 2 | Ch 4, 7  
Ch 19 |
| **WEEK 5** | JUNE 19 | Quality Control, Testing, Artifacts  
Spine, Skull  
Quiz 3 | Spine  
Quiz 3 | Ch 9  
Ch 20, 21 |
| **WEEK 6** | JUNE 26 | EXAM 1 | Skull | |
| **WEEK 7** | JULY 3 | Ultrasound, Fluoroscopy  
Dental imaging | Dental | Ch 10, 11  
Ch 22 |
| **WEEK 8** | JULY 10 | CT, MRI, Nuclear med and PET  
Special Procedures (contrast studies)  
Quiz 4 | Special procedures  
Quiz 4 | Ch 12-14  
Ch 23 |
| **WEEK 9** | JULY 17 | Large animal, avian, exotics  
Avian/Exotics  
Quiz 5 | Large animal  
Avian/Exotics  
Quiz 5 | Ch 24, 25 |
| **WEEK 10** | JULY 24 | EXAM 2 | Final Practicum | |