

ANSC 142L (CRN 61423)
Anatomy of Domestic Animals Laboratory

HYBRID COURSE: Online & Ulu 101 (UH Maui Campus)

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

CATALOG DESCRIPTION

Laboratory to accompany ANSC 142. This course is designed to acquaint the student with the body systems of common domestic species (e.g., cats, dogs, horses and birds) through dissections, examinations of models, laboratory exercises, and other hands-on activities. This course is intended for students entering veterinary technology, veterinary assisting or other animal-related fields (3 hrs. lab).

Prerequisite: Credit for or registration in ANSC 142 or equivalent preparation or consent of instructor.

Activities Required at Scheduled Times Other Than Class Times: Meets four times during the semester on Fridays and Saturdays on the Maui College Campus

STUDENT LEARNING OUTCOMES

Upon successful completion of ANSC 142L, the student should be able to:

- 1) Identify and describe the anatomy of the major body systems for cats, dogs and horses using prepared slides, skeletons, models and dissections.
- 2) Use standard anatomical terms to describe body directions, regions and sectioning planes.
- 3) Identify major anatomical landmarks used to assess patient health during physical exams.
- 4) Demonstrate proficiency at the use of the microscope as a clinical instrument.

COURSE CONTENT

Concepts or Topics

The student will describe and integrate basic biological principles and define basic biological terms presented in lecture, required texts, and other instructional materials. These principles include the following areas:

- Standard anatomical position.
- Use of the microscope.
- Anatomy of cells.
- Anatomy and function of mammalian tissues.
- Gross and histological anatomy of the following body systems:
 - Skeletal & Muscular Systems
 - Nervous System & Special Senses
 - Circulatory & Lymphatic Systems
 - Endocrine & Digestive Systems
 - Urinary & Reproductive Systems

COURSE TASKS

- 1) Prepare for lab by doing assigned reading, modules, and activities in the lab manual.
- 2) Attend class at scheduled times.
- 3) Participate in lab activities.
- 4) Complete course quizzes and video assignments.
- 5) Complete two lab practicums.

ASSESSMENT TASKS AND GRADING

QUIZZES (80 points total- 10 points for each quiz). Students will take a 1-2 short quizzes during each face-to-face lab (and occasionally on intervening weeks via laulima). The quizzes may cover the assigned reading for the day's lab *or* may be based on the material covered in the previous lab (see schedule for details). Students who miss a lab or show up late will receive a zero score for the quiz. The lowest two quiz scores will be dropped. **(NO EXCEPTIONS!)**.

LAB PRACTICUMS (200 points total-100 points for each practicum). The student will take two lab practicums (non-cumulative) to demonstrate knowledge and understanding of information presented in lab activities. These practicums will cover anatomy (e.g., organ identification and histology) and physiology of major systems covered during lab. Practicums must be taken at a pre-approved UH testing center.

LAB ACTIVITIES (100 points) Each lab exercise is accompanied by pre-lab worksheets, review questions and reinforcing activities. Students should complete pre-lab activities **BEFORE** the indicated lab and reinforcing activities prior to the next lab. These activities will be collected and graded per the class schedule.

VIDEO ASSIGNMENTS (60 points- 20 points for each assignment). The student will complete three video assignments to demonstrate knowledge and comprehension of course material. During these activities, the student will film themselves pointing out key anatomical features on a skeleton or other anatomical model. Notes and study aids are not allowed in the video. The videos will be graded on accuracy, efficiency, and production quality.

ATTENDANCE & CLASS PARTICIPATION (60 points) Attendance is mandatory and is worth 60 points towards the final grade. Each student is allowed **one** 3-hr absence without

penalty, which must be made up via attending one of the designated makeup days. Each absence above one will result in a deduction of points from the student's attendance score. Similarly, students who arrive late, leave early, or are not prepared for lab will receive a deduction in points. Students who miss more than 6 hrs of lab time will receive an "F" grade in the class.

METHOD OF GRADING

The assignment of points will be according to the following:

Quizzes (8)	80 points
Practicums (2 x 100)	200 points
Lab Activities	100 points
Video Assignments	60 points
<u>Attendance & Participation</u>	<u>60 points</u>
TOTAL	500 points

GRADING SCALE

Total Points	Percentage Points	Grade
448-500	90-100	A
398-447	80-89	B
348-397	70-79	C
298-347	60-69	D
<297	0- 59	F

Grades may be curved at the instructor's discretion; however, the student should use the above grading scale to evaluate their performance throughout the class. If you miss an examination because of an illness or legitimate emergency, you must contact the instructor **within 48 hours** to arrange a time to take a make-up exam. 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. **No retests will be given for any reason.**

LEARNING RESOURCES

Lab Manual: Pasquini, C., Spurgeon, T., and Pasquini, S., 1989. *Anatomy of Domestic Animals: Systemic & Regional Approach*. 10th ed. Sudz Pub Pilot Point, TX ISBN: 78-0-962-31142-0

Textbook: Colville, T. and J.M. Bassert. 2016. *Clinical anatomy and physiology for veterinary technicians*, 3rd Ed. Elsevier. ISBN: 978-0323227933

Software: Anatomy & Physiology Revealed Cat Edition ISBN 9780073525754

Laulima: Your instructor has created a Laulima website to accompany this course. This website contains lecture outlines, copies of course forms and syllabi, and links to on-line learning resources. To access, go to <https://laulima.hawaii.edu/portal>. Login using your UH username and password and click on 142L.

Additional Information

LAB ATTIRE, CONDUCT, AND HYGEINE

Because this lab involves the use of hazardous materials, students **MUST** wear close-toed shoes. In addition, some lab activities will require students to wear gloves and safety glasses (provided by the college). 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.

ACADEMIC DISHONESTY

Students involved in academic dishonesty will receive an "F" grade for the course. Academic dishonesty includes cheating on exams and plagiarism. See pages 20-21 of the 2010-2011 course catalog for a description of the University's policies concerning academic dishonesty.

ACCOMODATION FOR STUDENTS WITH DISABLITIES

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.

LAB SAFETY RULES

- 1) Be familiar with lab safety procedures and take appropriate precautions at all times to insure the safety of all lab students.
- 2) Follow all instructions carefully, especially when hazardous materials are being used.
- 3) Know the locations of important safety equipment: eyewash, safety shower, fire extinguisher, and first aid kit.
- 4) Report all injuries to the instructor immediately.
- 5) Dress appropriately for lab. Closed-toe shoes are required for ALL labs. Safety glasses and gloves are required for labs utilizing chemicals, bodily fluids, or hot-plates.
- 6) Report any hazardous conditions (e.g. chemical spills or broken glass) to the instructor immediately.
- 7) NO FOOD ALLOWED IN LAB
- 8) 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.
- 9) 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.
- 10) Clean all lab supplies and return them to their proper location before leaving lab.
- 11) Treat all organisms, living or dead, with care and respect. Use gloves when handling dissected specimens.
- 12) Place broken glass, sharps, and dissected specimens in the appropriate receptacles (NOT IN THE TRASH!)
- 13) Unless otherwise instructed, chemical wastes should NOT be disposed of down the drain.
- 14) Human tissues and bodily fluids (e.g., saliva and blood) must be disposed of in appropriate bio-hazard containers (NOT IN THE TRASH!).
- 15) Wash your hands immediately following each lab to reduce the possibility of contamination or infection.

*** Please note this schedule is tentative & subject to change. Any changes will be announced in-class or on the course website!**

Week	Date	Topics	Lect	Text	Assignment Due FRIDAY
1	1/15	Directional Terms			None
2	1/22	Introduction to Microscopy (Online Module)			Video Assignment 1: Directional Terms & Anatomical Planes
3	1/29- 1/30	Face-to-Face Lab: Cells Tissues Integumentary System			Quiz 1: The Microscope Quiz 2: Cells
4	2/5	N/A			
5	2/12	Skeletal System (Online Module)			Quiz 3: Tissues
6	2/19- 2/20	Face-to-Face Lab: Axial Skeleton Appendicular Skeleton Intro to Muscular System			Quiz 4: Integumentary System Quiz 5: Skeletal System Lab Notebook Check
	2/21	Makeup Lab			
7	2/26	N/A			Video Assignment 2: Skeletal Anatomy
8	3/4	Lab Practicum #1			
9	3/11	Muscular System (Online Module)			
10	3/18	Nervous System & Special Senses (Online)			
11	3/25- 3/26	Face-to-Face Lab Muscular System Nervous System Special Senses Endocrine System			Quiz 6: Muscular System (Major Muscles)
12	4/1	Cardiovascular System (Online Module)			Quiz 7: Nervous System & Special Senses
13	4/8	Respiratory System (Online Module)			Video Assignment 3: Muscular Anatomy, Origins, Insertions, Actions
14	4/15	Digestive System (Online Module)			
15	4/22	Urinary System (Online Module)			
16	4/29- 4/30	Face-to-Face Lab Cardiovascular System Respiratory System Digestive System Urinary System Reproductive System			Quiz 8: Cardiovascular & Resp Quiz 9: Digestive Lab Notebook Check
	5/1	Makeup Lab			
17	5/6	None			Quiz 10: Urinary & Reproductive
18	5/10 Tue	Lab Practicum #2			

- Last day for full refund: January 15th
- Last day to drop without “W” grade: February 1st
- Last day to Withdraw (“W” entered on transcript): March 29th