

**ANSC 142**  
**Anatomy and Physiology of Domestic Animals 3**

Credits

Mon Wed 1:00-2:15 (CRN 61049) or 2:30-3:45 (CRN 61139)

**INSTRUCTOR:** Sam Geiling, RVT

**OFFICE HOURS:** Mon 11-1 & Tue 12-3, or by appt

**TELEPHONE:** 236-9107      **271-7883**

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**EFFECTIVE DATE:** Fall 2017

**OFFICE:** Hale Kako'o 128

**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**

Introduction to the anatomy and physiology of domestic animals. Compares the anatomy and function of major body systems for the cat, dog and horse, with lesser emphasis on birds, reptiles and amphibians. This course is intended for students entering veterinary technology, veterinary assisting or other animal-related fields. (3 hours lecture)

Pre-Requisite(s): Registration in or a grade C or better in ANSC 142 and ANSC 142L. Credit for or placement in ENG 100 and MATH 101. Confirmed attendance to WCC veterinary technology information session.

**STUDENT LEARNING OUTCOMES**

- Discuss the chemical building blocks of major biological molecules.
- Describe the link between cells, tissues, organs, and organ systems.
- Contrast the structure and function of major body systems (e.g., skeletal, circulatory, respiratory, and reproductive) among companion animals and selected livestock species.
- Explain how disease and disorders disrupt the homeostasis of each of the above body systems and discuss how common veterinary medical treatments are used to restore homeostasis.

**COURSE CONTENT**

Concepts and 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: • Chemistry of living organisms • Biological macromolecules • Cellular basis of life • Membrane transport • Cellular division • Tissues • Homeostasis • Integumentary System: Skin, hair, nails and hooves • Skeletal system: Bones, joints, and joint movements • Muscular system: Origins, insertions, and actions • Nervous System: Major divisions • Endocrine System: Major hormones and their effects • Circulatory System: The Heart, Blood, and Blood Vessels • Respiratory System: Anatomy and Physiology of Respiration • Digestive System and Metabolism • Urinary System • Reproductive system • Pregnancy and parturition

## COURSE TASKS

- 1) Attend lectures, on time
- 2) Complete assigned readings **prior to** the lectures
- 3) Participate in class activities
- 4) Come prepared to class each week to complete 10 quizzes
- 5) Complete 4 examinations and 4 Exam Reviews

## ASSESSMENT TASKS AND GRADING

**ATTENDANCE:** 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 each absence.** These points will be deducted from the final grade. 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. 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 repercussions in future semesters as a result.

**QUIZZES:** 100 points total – Students should expect a quiz most class periods and are expected to keep up with the material and be prepared every class. Each quiz is worth 10 points. Quizzes will be given at the beginning of class and take 5-10 minutes. If you are late, you will not be allowed extra time.

**EXAM REVIEWS:** 40 points total – Students are expected to complete reviews prior to each exam. Each review is worth 10 points.

Instructions: each student will write **10 questions** with the CORRECT answers from the chapters for the upcoming exam, **post it** to Laulima under resources, and **bring one copy** to the class BEFORE the REVIEW. (Example: Exam #1 is Sep 13, the review day is Sep 30, so questions are due on Laulima and in class on Sep 6) Please do not use the Test Yourself questions at the end of each chapter, write your own questions. They can be any format: T/F, Multiple choice, short answer, etc. Format the printed version so that it fits on one page, single-sided with the questions listed on the top half and the answers on the bottom half.

**ASSIGNMENTS:** 40 points total - There will be two assignments (20 points each) on the Avian and Amphibians/Reptiles chapters. These will be handed out in class and must be turned in on time.

**CLASS PARTICIPATION:** 70 points total – There will be in-class discussions, group work, and other activities that require participation by each student.

**EXAMINATIONS:** 400 points total – Exams are as follows: Exam 1-40 points, Exam 2-60 points, Exam 3-100 points, Exam 4 (final)-200 points. Each exam is cumulative and all material is testable after it is covered. *Please do not ask when your exams will be graded, the answer will always be the same: when I am done grading ;)*

### Method of grading

Quizzes	100 points	<u>GRADE</u>	<u>Percent</u>	<u>Points</u>
Reviews	40 points	A	90-100%	582-650
Assignments	40 points	B	80-89%	517-581
Participation	70 points	C	70-79%	452-516
Exams	400 points			
<hr/> TOTAL	<hr/> 650 points			

(Below 70% is not passing in ANSC)

## Additional Information

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.

Grades may be curved at the instructor's discretion, but please don't ask about it. Being asked to curve grades may sway my decision in the negative. **Please note, there will be no "N" grades given in this 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 14-15 of the 2015- 2017 course catalog for a description of the College's policies concerning academic dishonesty. Also see the VETA/VETT student handbook. A simple rule to follow: if it is worth points, work on your own.

## Learning Resources

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

## HOW TO SUCCEED IN THIS COURSE

- 1) Science courses at WCC generally require a minimum of 3 hours of independent study for **each** hour of class; therefore you should expect to spend **9 hours per week studying OUTSIDE of class** to fully understand the complexities of the wide range of information presented in this class.
- 2) Although you can download the lecture PowerPoint outlines and read the textbook, you will not succeed in this class without attending the lecture and taking notes on the corresponding material in the textbook. You need to **study** this material.
- 3) Another proven method of effective learning strategies is to form effective study groups with your classmates. Come prepared, meet on a schedule, change up the format. If you'd like more guidance on study groups, please 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](mailto:lemke@hawaii.edu), or you may stop by Hale 'Akoakoa 213 for more information.*

<b>WEEK</b>	<b>MONDAY</b>	<b>CH</b>	<b>WEDNESDAY</b>	<b>CH</b>
<b>1</b>	8/21 Course intro Directional Term	<b>1</b>	8/23 Chemical Basis for Life	<b>2</b>
<b>2</b>	8/28 Cell Anatomy and Physiology	<b>3&amp;4</b>	8/30 Tissues	<b>5</b>
<b>3</b>	9/4 Labor Day ~~NO CLASS~~		9/6 Integument	<b>6</b>
<b>4</b>	9/11 REVIEW		9/13 EXAM 1 (40 POINTS)	
<b>5</b>	9/16 Skeletal System	<b>7</b>	9/20 Skeletal System	<b>7</b>
<b>6</b>	9/25 Muscular System	<b>8</b>	9/27 Muscular System	<b>8</b>
<b>7</b>	10/2 Nervous System	<b>9</b>	10/4 Sense Organs	<b>10</b>
<b>8</b>	10/9 Endocrine System	<b>11</b>	10/11Endocrine System	<b>11</b>
<b>9</b>	10/16 REVIEW		10/18 EXAM 2 (60 POINTS)	
<b>10</b>	10/23 Blood/Lymph	<b>12</b>	10/25 Immunity and Defense	<b>13</b>
<b>11</b>	10/30 Cardiovascular System	<b>14</b>	11/1 Cardiovascular/ Respiratory	<b>14/15</b>
<b>12</b>	11/6 Digestive System	<b>16</b>	11/8 Nutrients and Metabolism	<b>17</b>
<b>13</b>	11/13 Urinary System	<b>18</b>	11/15 Urinary System	<b>18</b>
<b>14</b>	11/20 REVIEW		11/22 EXAM 3 (100 POINTS)	
<b>15</b>	11/27 Reproductive System	<b>19</b>	11/29 Reproductive System	<b>19</b>
<b>16</b>	12/4 Pregnancy, Development, and Lactation	<b>20</b>	REVIEW	
<b>FINAL</b>	<b>TBA:</b>			

**\*\*Schedule is tentative and subject to change. Any changes will be announced in class or via Laulima.\*\***