ANSC 253
Applied Pharmacology for Veterinary Technicians

CRN: 64121 Wednesday 2:30pm (Hale Palanakila 102)
Instructor: Amy Compton, DVM
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Office Hours: Available by appointment
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Effective Date: Fall 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 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
This course is designed to give students a practical knowledge of drugs used in veterinary medicine. Topics include drug classification, methods of action, calculations, administration, effects and side effects. Also includes a discussion of client education, drug safety, and federal regulations governing the purchase and storage of controlled drugs. Upon successful completion, students will be able to properly calculate, dispense, and administer medications, recognize adverse reactions and maintain pharmaceutical inventory and administrative records. This course is intended for students entering veterinary technology, veterinary assisting, or other animal-related fields. (3 hours lecture)

Prerequisite(s): Admission into Veterinary Technology program and a grade of “C” or better in all completed ANSC courses.

Activities Required at Scheduled Times Other than Class Times: None

Student Learning Outcomes
Upon successful completion of ANSC 253, the student should be able to:

- Recognize groups of veterinary drugs, their mechanisms & actions, and clinically relevant side effects.
- Correctly interpret a veterinarian’s pharmacy orders.
- Accurately calculate, dispense, and administer the correct form and dose of a medication.
- Maintain a controlled substances log book in accordance with local and federal laws.
- Explain federal and state regulatory guidelines for drug purchase, storage, administration, withdrawal, disposal and inventory control.
- Accurately communicate drug information and dosing instructions to clients in order to maximize safety, compliance with prescribed therapy and successful treatment of the patient.

Course Content

- Therapeutic applications
- Pharmacy procedures and Dosage calculations
- Principles of how drugs work
- Drugs affecting different body systems
Antimicrobials
Disinfectants/Antiseptics
Antiparasitics
Antiinflammatories

Course Tasks
- Attend class meetings at scheduled times.
- Complete assigned readings.
- Complete 2 examinations, all quizzes, and assignments.

Assessment Tasks and Grading:

ATTENDANCE: Attendance is mandatory and defined as being present in class for at least 75% of the class period. Each student is allowed one absence without penalty. Each unexcused absence beyond the one allowed, will result in a deduction of 5 points from the student’s grade. If a student has an excused absence, a doctor's note or documentation must be given to the instructor within 48 hours of returning to school.

Exams: Exams are worth 350 points total. The student will take two exams to demonstrate knowledge and understanding of information presented in the lectures, text readings, and assignments. The first exam will be taken during lecture time at the testing center. The final exam will be cumulative, and will be administered at the testing center during Final Exam week.

Please note you are required to complete all readings, assignments, tests, and obtain a score of at least 70% on the final exam to pass the course.

METHOD OF GRADING
- Midterm exam - 150 points
- Final exam – 200 points
- Quizzes – 100 points
- Assignments – 150 points

GRADING SCALE
- Total Points and Grade Equivalent
  600 - 540   A
  539 - 480   B
  479 - 420   C
  419 - 360   D
  359 - 000   F

- Total number of points subject to change.
- 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.

Policy on Make-Up Exams:
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 make-up the missed test. The student must present evidence of the illness or emergency that caused the student to miss the test. If the student misses an exam for any other reason, the student may be prohibited from taking a make-up. Make-up exams may differ from the original test with regards to questions but content will remain the same. **No retests will be given for any reason.**
ACADEMIC DISHONESTY
Students involved in academic dishonesty will receive an "F" grade for the course. Academic dishonesty includes cheating on exams and plagiarism. See the Official course catalog for a description of the University's policies concerning academic dishonesty.

Learning Resources

Textbook:

Additional Information

Canvas: Your instructor has created a Canvas website to accompany this course. This website contains lecture outlines, copies of course forms and syllabi, and links to on-line learning resources. Students enrolled in ANSC 253 are automatically enrolled in the ANSC 253 Canvas website. To access, go to https://windwardcc.instructure.com/login/canvas. Login using your UH username and password and click on ANSC 253.

Student Responsibilities

The student is expected to attend class meetings, participate in all course activities, and complete all examinations and course assignments on time. Please be considerate of other students by turning off cell phones during class. Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in class or on the Canvas website. It is the student’s responsibility to be informed of these changes. It is the student’s responsibility to be informed about deadlines concerning registration (e.g., last day for withdrawal).

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, or you may stop by Hale ‘Akoakoa 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.
**Schedule: Subject to Change**

**Note:** In addition to the readings in textbook, other resources may be added for further information. They will be uploaded to the Canvas site under Resources (handouts/reading material).

**Week 1:**
**August 22nd:**
Introduction/Syllabus  
Reading: Chapter 1.

**Week 2:**
**August 29th:**
Pharmacy procedures and Dosage calculations  
Reading: Chapter 2.

**Week 3:**
**September 5th:**
Pharmacokinetics and Pharmacodynamics  
Reading: Chapter 3.

**Week 4:**
**September 12th:**
Pharmacokinetics and Pharmacodynamics  
Reading: Chapter 3.

**Week 5:**
**September 19th:**
Drugs affecting nervous system – analgesics, etc  
Reading: Chapter 8.

**Week 6:**
**September 26th:**
Drugs affecting cardiovascular system  
Reading: Chapter 5

**Week 7:**
**October 3rd:**
Drugs affecting respiratory system & Midterm review  
Reading: Chapter 6.
Week 8:

October 10th:
MIDTERM EXAM – Given in testing center during class time

Week 9:

October 17th:
Drugs affecting endocrine system
Reading: Chapter 7.

Week 10:

October 24th:
Drugs affecting gastrointestinal tract
Reading: Chapter 4.

Week 11:

October 31st:
Drugs affecting nervous system – anticonvulsants, etc
Reading: Chapter 9.

Week 12:

November 7th:
Antimicrobials
Reading: Chapter 10.

Week 13:

November 14th:
Disinfectants and antiseptics
Reading: Chapter 11.

Week 14:

November 21st:
Antiparasitics
Reading: Chapter 12.

Week 15:

November 28th:
Antiparasitics and Antiinflammatories
Reading: Chapter 12 & 13.
Week 16:
December 5th:
Final exam review

Finals week: December 8th – 14th: Final Exam in Testing Center

Important Dates:

August 28th - Last day to drop for **100% refund**

September 3rd – Spring Break

September 11th - Last day for **50% refund & Last Day to Withdraw without** a "W" Grade

October 29th - Last day to withdraw with a “W” grade

November 6th – General election day

November 12th – Veterans’ Day

November 22nd – Thanksgiving Day

**December 6th – Last day of instruction**

**December 8th-14th – Final Exams**