



UNIVERSITY of HAWAII®
WINDWARD
COMMUNITY COLLEGE

ANSC 253: Pharmacology for Veterinary Technicians

3 Credit Hours (CRN 64213)

Thursdays 10:00-12:30 PM

Palanakila 212

INSTRUCTOR: Dr. Jessie Krause
OFFICE: Imiloa 102
OFFICE HOURS: Thursdays 8:30-9:30 AM
TELEPHONE: 808-236-9125
EMAIL: jkrause7@hawaii.edu
EFFECTIVE DATE: Fall 2024

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 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.

Credits: 3

Prerequisites: Admission in the Veterinary Technology Program and a grade of “C” or better in all completed ANSC courses.

STUDENT LEARNING OUTCOMES

As a result of taking this course, students can expect to attain the following outcomes:

- 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.
- Describe the safe and effective manner in which vaccines must be administered.
- Maintain a controlled substances logbook 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

This course is structured to cover roughly one chapter per week from the required textbook: Clinical Pharmacology and Therapeutics for Veterinary Technicians, 5th Edition (see below).

***The following schedule is subject to change.**

***Details regarding assignment, quiz, and exam due dates and instructions will be announced in class and posted in Lulima.**

| Week | Class Date | Topic |
|------|------------|--|
| 1 | 8/29 | Ch. 1: Veterinary Pharmacology and the Veterinary Technician |
| 2 | 9/5 | Ch. 2: Pharmacy Procedures and Dosage Calculations |
| 3 | 9/12 | Ch. 3: Pharmacokinetics and Pharmacodynamics |
| 4 | 9/19 | Ch. 8: Review of the Nervous System; Drugs Affecting the Neuro System Part 1: Analgesics, Tranquilizers, Sedatives, and Anesthetics |
| 5 | 9/26 | Exam 1 (Ch. 1-3, 8) |
| 6 | 10/3 | Ch. 4: Drugs Affecting the Gastrointestinal Tract |
| 7 | 10/10 | Ch. 5: Drugs Affecting the Cardiovascular System |
| 8 | 10/17 | Ch. 6: Drugs Affecting the Respiratory System |

| | | |
|----|-------------|---|
| 9 | 10/24 | Ch. 7: Drugs Affecting the Endocrine System |
| 10 | 10/31 | Ch. 13: Antiinflammatory Drugs |
| 11 | 11/7 | Exam 2 (Ch. 4-7, 13) |
| 12 | 11/14 | Ch. 9: Drugs Affecting the Neuro System Part 2 - Anticonvulsants and Behavior-Modifying Drugs |
| 13 | 11/21 | Ch. 10: Antimicrobials |
| 14 | 11/28 | No Class - Happy Thanksgiving! Ch. 11: Disinfectants and Antiseptics |
| 15 | 12/5 | Ch. 12: Antiparasitics |
| 16 | 12/12 | Chemotherapy Drugs Review for Exam 3 |
| 17 | 12/16-12/20 | Exam 3 (½ covering Ch. 9-12 and ½ Cumulative Final) – Date/Time TBA |

COURSE TASKS

Overview

Students will be expected to attend weekly lectures, read assigned textbook chapters, watch assigned lecture videos, review supplemental materials, and complete assignments and quizzes by the due dates posted in Lualima. Three examinations will be given throughout the course of the semester.

ACTIVITIES REQUIRED AT SCHEDULED TIMES OTHER THAN CLASS TIMES

On occasion, students will be expected to take quizzes or exams at the campus testing center. Students will be given advance notice and are expected to schedule their own appointments.

Testing Center Information:

- Appointments are required for Testing Center use and will need to be made at least 3 days in advance.
- Appointments can be made on the Testing Center webpage (<https://windward.hawaii.edu/services-for-students/testing-center/>).
- The Testing Center can be reached at 808-235-7498 with any questions or for assistance in making appointments.
- ID cards are required.
- Testing Center hours are M-F 8-4pm (closed on holidays).

ASSESSMENT TASKS AND GRADING

Students will be graded as follows:

POINT VALUES

Total of 850 points

- Quizzes - 130 points
 - 13 (1 for each chapter), 10 points each
- Exams - 500 points
 - 150 points each for Exams 1 and 2
 - 200 points for Exam 3 (a portion will cover the last several chapters of the course, and the rest will be a cumulative final exam)
- Assignments - 220 points

GRADING SCALE

Total Points and Grade Equivalent

| | |
|--------------------|--------------|
| 765-850 points | A (90%-100%) |
| 680-764 points | B (80%-89%) |
| 595-679 points | C (70%-79%) |
| 510-594 points | D (60%-69%) |
| 509 points or less | F (<60%) |

Please note that "N" grades are not given for this course.

A total score of 70% or above is required in order to pass this course.

A minimum score of 70% is required on the final exam in order to pass this course, regardless of the student's overall course grade.

In the event that a student scores less than a 70% on the final exam, the final exam score will become the overall course grade.

Attendance:

Attendance is mandatory and defined as being present for the scheduled class time for the entire period. Any absences must be communicated with your lecturer prior to or on the day of the absence. Each student is allowed one unexcused absence without penalty. **Each unexcused absence beyond the one allowed, will result in a deduction of 15 points from the student's final course score.** If a student is absent due to an emergency or is too ill to come to class, **a doctor's note or documentation must be given to the instructor within 48 hours of the missed class in order to be considered an excused absence.**

Quizzes may be given at the start of the lecture period. Students are responsible for being on time to take their quiz. No additional time will be given for quizzes nor will quizzes be administered at a later time without a documented excuse.

Lecture attendance via Zoom during an absence may be possible with instructor approval. It is the student's responsibility to contact the instructor to have this arranged. Attendance via Zoom is **NOT** considered equivalent to attendance in person and will not be treated as such with regards to a student's attendance grade. An absence will be counted as unexcused without proper documentation whether a student attends via Zoom or not.

Tardiness: Arriving more than 10 minutes late may be considered an absence.

For more information on the Veterinary Technology Program attendance policy, please refer to the Student Handbook.

Late Assignment Policy:

Late submissions will be accepted up to 24 hours past the due date, but will be awarded only 50% of the original point value. Late submissions will not be accepted after 24 hours past the due date and time. If an assignment was missed due to an unforeseen emergency, communication must be established with your instructor within 48 hours of the missed deadline and documentation must be provided.

Make-Up Exam Policy:

If an examination must be missed because of an illness or legitimate emergency, the instructor must be contacted as soon as possible to arrange a time to make-up the missed exam. 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 exam. 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.

LEARNING RESOURCES

Required textbook:

Bill's Clinical Pharmacology and Therapeutics for Veterinary Technicians, 5th Edition.
Anderson, Melinda. Elsevier Saunders, St. Louis, MO. ISBN: 9780323880404.

Lectures: Video lectures and PowerPoint presentations will be available for each week on a shared Google drive. Links to these resources will be posted on Lulima.

Other resources: Due to the nature of this course, it is necessary to have access to high-speed internet, campus email, Lulima, Google Drive, and computer software (e.g. Microsoft, Adobe).

ADDITIONAL INFORMATION

Communication

- The instructor will communicate with students during class time, by email, or through the Lulima website. Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in Lulima or via email.
- It is recommended that students check their email accounts regularly (at least every 48 hours) to be informed of any changes in a timely manner.
- When responding to email communication from your instructor or other faculty member, students are to “reply all” so that all parties are included in the response.
- Any questions pertaining to an individual student’s grade, or which for other reasons are preferred to be asked privately, can be sent to the instructor via email to jkrause7@hawaii.edu. Likewise, any questions not covered in class or questions which are time-sensitive may be emailed to the instructor at any time.

Student Responsibilities

- **Students are expected to complete all examinations and course assignments on time. Students are also expected to make sure that the correct and complete version of their assignments are uploaded to the correct assignment space in order to receive credit for their work.**
- It is the student’s responsibility to be informed about deadlines concerning registration (e.g., last day for withdrawal).
- It is the student’s responsibility to be informed of announcements made and to obtain copies of any assignments handed out while the student is absent.
- It is the student’s responsibility to be aware of and follow all rules, policies and procedures as stated in the syllabus, the WCC Vet Tech Student Handbook, the UH Student Conduct Code, or via other written communication by the instructor. Failure to follow rules, or any UH/WCC policies, will result in demerits for such violations as provided for in the WCC Veterinary Technology Program Student Handbook. The instructor reserves the right to change, modify or add to rules during the semester if deemed necessary. Students will be notified in writing of any changes.

Behaviors recommended for success in this course:

- Set aside time to complete tasks and study the assigned material weekly. **Good time management skills are essential for success in this course.**
- When applicable, do not forget to schedule time to take quizzes or exams at the Testing Center.
- Treat all classmates and instructors with respect and courtesy.
- Arrive for class on time and ready to go.
- Behave professionally at all times. Do not complain, gossip, or speak negatively about others (in or outside of the program).
- Ask for help or clarification when needed. Tutor contact information will be listed in Laulima.

Policy for Technology Use in the Classroom:

- Calculators will be provided for use in completing in-class activities, quizzes, and exams.
- Calculators will also be provided for use at the Testing Center. If a student prefers to bring his/her own calculator for use on quizzes or exams at the Testing Center, the Testing Center staff will check it for notes prior to use.
- **Personal electronic devices are not allowed for performing calculations for quizzes and exams.**
- **Personal electronic devices are to be used for note-taking purposes only.**
- Inappropriate use of personal electronic devices during class time will result in the accumulation of 1 demerit per instance as stated in the Student Handbook. Inappropriate use of electronics in this class is defined as any purpose other than taking notes (including but not limited to: texting, checking social media accounts, “surfing” the internet).
- The instructor reserves the right to prohibit the use of personal electronic devices during class time if these rules are not followed.

STUDENT CONDUCT CODE

See the E7.208 University of Hawaii Systemwide Student Conduct Code

The UH Student Conduct Code shall apply to conduct that occurs on UH premises, at UH sponsored activities, in distance/on-line courses and events, and to off-campus conduct that affects the UH Community and/or the pursuit of its objectives. Each student shall be responsible for his/her conduct from the time of application for admission through the actual awarding of a degree.

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
Counselor, Disability Student Services
Office Hale Kako‘o 106
808-235-7448
royinouy@hawaii.edu

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:

Leslie Cabingabang, UH Confidential Advocate
Phone: (808) 348-0432 or (808) 341-0952
Email: advocate@hawaii.edu
Office: Hale Kāko‘o 107 (Wednesdays)

Desrae Kahale, Mental Health Counselor & Confidential Resource
Phone: (808) 235-7393
Email: dkahale3@hawaii.edu
Office: Hale Kāko‘o 101

Mykie Ozoa-Aglugub, Title IX Coordinator
Phone: (808) 235-7468
Email: mozoa@hawaii.edu
Office: Hale Kāko‘o 109

Karen Cho, Deputy Title IX Coordinator
Phone: (808) 235-7404
Email: kcho@hawaii.edu
Office: Hale ‘Alaka‘i 128

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/

ACADEMIC INTEGRITY

Academic dishonesty includes cheating on quizzes or exams and plagiarism. **In this course, quizzes and exams are not “open-book” and the use of notes or other course resources is prohibited unless otherwise specified.**

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.

In this class, students who commit academic dishonesty, cheating or plagiarism will have the following consequences:

- Students will receive a failing grade for plagiarized assignments or tests, or for any quizzes or tests for which they are found to use prohibited materials to answer questions.
- 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, please contact Dr. Jenny Kelly at jennyrk@hawaii.edu.

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

****Please note that the syllabus is subject to change. Students will be given advance notice of any changes.**