



UNIVERSITY of HAWAII®  
**WINDWARD**  
COMMUNITY COLLEGE

## **ANSC 253: Pharmacology for Veterinary Technicians**

3 Credit Hours (CRN 63356)

Online

**INSTRUCTOR:** Dr. Jenny Kelly  
**OFFICE:** Imiloa 136  
**OFFICE HOURS:** By Appointment – Zoom or In-person when you're on campus  
**TELEPHONE:** 808-236-9166  
**EMAIL:** [jennyrk@hawaii.edu](mailto:jennyrk@hawaii.edu)  
**EFFECTIVE DATE:** Spring 2026

### **WINDWARD COMMUNITY COLLEGE MISSION STATEMENT**

*'O keia ka wā kūpono e ho'onui ai ka 'ike me ka ho'omaopopo i kō Hawai'i mau ho'oilina waiwai. Aia nō ho'i ma ke Kulanui Kaiāulu o ke Ko'olau nā papahana hou o nā 'ike 'ake akamai a me nā hana no'eau. Me ke kuleana ko'iko'i e ho'ohiki ke Kulanui e kāko'o a e ho'okumu i ala e hiki kē kōkua i ka ho'onui 'ike a nā kānaka maoli. Na mākou nō e ho'olako, kāko'o a paipai i nā Ko'olau a kō O'ahu a'e me nā hana no'eau ākea, ka ho'ona'auao 'oihana a me ka ho'onui 'ike ma ke kaiāulu— hō'a'ano a e ho'oulu i nā haumāna i ka po'okela.*

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 and 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, 5<sup>th</sup> Edition. See more information below.

## COURSE TASKS

### Overview

This is an online course. Students will be expected to watch weekly lecture videos, read the assigned textbook chapter, review any supplemental materials, and complete any other assigned work by the posted due dates. All coursework will be completed in Lamakū unless otherwise specified.

Weekly quizzes and three examinations will be given throughout the course of the semester. **Quizzes and exams are not "open-book" and the use of notes or other course resources is prohibited unless otherwise specified.** Loom or Zoom videos will be required to receive credit for quizzes and exams, which must show that the student's workspace is free from books, notes, or other learning aides (including smartphones, ipads, etc). The loom videos will need to be uploaded into a designated assignment space for this purpose in Lamakū.

Weekly Zoom meetings will be scheduled to reinforce topics and answer any questions you may have. These will be scheduled using the results of a student poll given during the first week of classes. Attendance at these meetings is encouraged but not required.

## ADDITIONAL INFORMATION

### **Regular Substantive Interaction:**

Online courses at Windward Community College follow the college's [RSI Definition](#) for ensuring quality instruction. You can expect me to communicate with you frequently (and in a timely fashion) about our coursework in the following ways during our 16-week course.

Announcements will be sent out weekly on Sunday or Monday at the start of each module. Each topic module will have information regarding the week's tasks and due dates.

Discussions will be utilized throughout the course to keep students engaged and interactive with the module topics. Discussions will also be used for questions on course information to clarify and verify pharmacology topics.

Grades will be updated weekly in Lamakū. If there are any issues or questions regarding grades or points, please email me at [jennyrk@hawaii.edu](mailto:jennyrk@hawaii.edu).

### **Communication:**

- The instructor will communicate with students primarily through Lamakū website. Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in Lamakū.
- 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.
- Class discussions and lectures reinforcing the weekly topic will take place during weekly Zoom meetings. Questions on the subject matter will be answered during this time.
- Any questions not covered in the Zoom meetings or questions which are time-sensitive may be emailed to the instructor at any time.
- 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 [jennyrk@hawaii.edu](mailto:jennyrk@hawaii.edu).

### **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.
- 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.
- You will need a calculator that is separate from your cell phone. Calculators will be allowed for exams and quizzes, but cell phones will not.

**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.
- Treat all classmates and instructors with respect and courtesy.
- Behave professionally at all times. Do not complain, gossip, or speak negatively about others (in or outside the program).
- Ask for help or clarification when needed. Tutor contact information will be listed in Lamakū.

**Netiquette:**

(Network etiquette - appropriate online behavior) - Please visit the [UH Netiquette and Safety](#) page for additional information.

- Refrain from using CAPS lock – it indicates anger, yelling, or an aggressive tone.
- Use correct spelling, capitalization, and punctuation in all correspondence.
- Use standard English, not “texting” language.
- Be respectful to each other, choose your words wisely, and do not reply while upset or angry. When communicating online, it is difficult to convey tone and words can be misunderstood. Take time to be calm, proof-read, and consider how someone else might interpret what you are saying.
- Express differences of opinion in a polite and rational manner.
- Avoid bringing up irrelevant topics when involved in group discussions or other collaborative activities.
- If you ever receive an email or a response in discussions that is not appropriate, please contact the instructor privately and immediately. The vet tech program has no tolerance for anything that would be considered harassment, bullying, impolite or insulting. Situations like this may be referred to the program director, Dean, or Vice Chancellor of Student Affairs and corrective action will be taken.

**Zoom Classroom Etiquette:**

This is a virtual classroom, so appropriate classroom behavior is expected.

- Take care of your personal needs (hygiene, eating, talking to others in your home, etc.) prior to entering the classroom.
- Ensure your workspace is quiet, clean, and has an appropriate background.
- Keep your audio on mute until you want to speak.
  - If you would like to speak, use the ‘raise hand’ feature, then unmute yourself when called upon.
- Keep your camera on to maintain focus.
- Use respectful, appropriate language.
- Be professional:
  - Be on time.
  - Dress appropriately.
  - Come prepared to discuss the assigned topics.

**PARTICIPATION VERIFICATION**

Campuses are required by federal regulations to verify the participation of students in their classes. In accordance with Executive Policy 7.209, all students in the University of Hawai'i system are required to establish "participation" to ensure that they are not dropped from their class(es). Effective fall 2021, students who fail to participate by the late registration period for a class will be administratively dropped from that class. Students may also be dropped from dependent prerequisite and/or corequisite classes if both courses do not establish participation.

## ASSESSMENT TASKS AND GRADING

Students will be graded as follows:

### POINT VALUES

Total of 1,000 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 - 250 points
- Study Guides – 120 points

### GRADING SCALE

#### Total Points and Grade Equivalent

- **A:** 900–1,000 points (90–100%)
- **B:** 800–899 points (80–89%)
- **C:** 700–799 points (70–79%)
- **D:** 600–699 points (60–69%)
- **F:** 0–599 points (Below 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.*

#### 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 Lamaku before the start of each lecture period.

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

**Lamakū Learning Management System** (<https://lamaku.hawaii.edu/d2l/home>)

- [Keeping Accessibility and UDL in Mind - Google Docs](#)
- Lamakū automatically logs you out *if it does not detect activity for three hours*. A warning message will appear, notifying you of the lack of activity. Activity is defined as clicking a button in Lamakū, such as "Save Draft" or "Next" (in a test), clicking on a course tab, or taking an action that sends information to the server.

## **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.

## **ACADEMIC INTEGRITY**

Academic dishonesty includes cheating on quizzes or exams, plagiarism, and the use of generative AI without permission from the instructor.

### **Cheating on Quizzes/Exams**

In this course, quizzes and exams are not “open-book” and the use of notes or other course resources is prohibited unless otherwise specified.

### **Plagiarism and Generative AI**

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. The use of generative AI, such as but not limited to ChatGPT, is prohibited in this class without permission from the instructor. All information needed to complete assigned work will be present in the course materials provided. Copying AI answers to short answer or essay questions defeats the purpose of the assignment and constitutes plagiarism.

In this class, students who commit academic dishonesty 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.

## **ACADEMIC AND TECHNICAL SUPPORT**

### **Academic Support**

- [Ka Piko Math Lab](#)
- Veterinary Technology Program Tutors:
  - Nora: [WCC Vet Tech Tutor Nora](#)
  - Mele: [WCC Vet Tech Tutor Mele](#)
  - Mindi: [WCC Vet Tech Tutor Mindi](#)
  - Joleen: [WCC Vet Tech Tutor Joleen](#)
  - Tiffany: [WCC Vet Tech Tutor Tiffany](#)

### **Technical Support**

- [UH ITS Help Desk](#) – email [help@hawaii.edu](mailto:help@hawaii.edu) or call 956-8883 (or 1-800-558-2669) for Lamakū and most technology support. Available 24 hours a day, 7 days a week, including holidays.
- Student Tech Support - email [winhelp@hawaii.edu](mailto:winhelp@hawaii.edu), call 808-235-7437, or stop by in person at Hale La‘akea 228. Available Monday–Friday from 8:00 am–4:00 pm.
- Lamakū – Click on the [Lamakū Help](#) link in the menu bar at the top of the Lamakū homepage to fill out and submit a question and get your answer via email.
- [Information Security for Students](#)

## COLLEGE POLICIES AND SUPPORT SERVICES

### Disabilities Accommodations Statement

The Windward Community College's Disability Student Services Office (WCC-DSSO) is committed to providing equal access to qualified students with disabilities.

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to participate fully in this class, you are encouraged to contact the Disability Specialist Counselor, Roy Inouye, to discuss reasonable accommodations that will help you succeed in this class. The Disabilities Counselor can be reached at 808-235-7448, [wccdsso@hawaii.edu](mailto:wccdsso@hawaii.edu), or stop by the office (Hale Kako'o 106) for more information.

### TRIO Program

The Federal TRiO Programs are educational opportunity outreach programs designed to motivate and support students from disadvantaged backgrounds. TRiO includes six outreach and support programs targeted to serve and assist low-income, first-generation college students and students with disabilities in progressing through the academic pipeline from middle school to post-baccalaureate programs. Here is their contact info: <https://windward.hawaii.edu/trio/>

### Basic Needs

Basic needs include food and housing, childcare, mental health, financial resources, and transportation. Student basic needs security is critical for ensuring strong academic performance, persistence and graduation, and overall student well-being. If you or someone you know is experiencing basic needs insecurity, please see the [UH System Basic Needs website](#).

### Mental Health Counseling

Mental Health and Wellness at Windward Community College counseling services and activities on campus to support students' life goals as well as their academic goals. Information about services can be found at the [WCC Mental Health & Wellness website](#).

### LGBTQ+

The University of Hawai'i system and Windward Community College are committed to building an inclusive community that supports and advocates for all Students, Staff, and Faculty. We welcome all members of our campus community to our campuses: transgender, māhū, and people of all gender identities. All members of our campus community deserve a work and educational environment free from harassment or bullying based on their sexual orientation, gender identity, or expression. University of Hawai'i Commission on LGBTQ+ Equality at their website: <http://www.hawaii.edu/offices/president/lgbtq/> Windward Community College Commissioner: Scott Sutherland, [scottjks@hawaii.edu](mailto:scottjks@hawaii.edu)

## **UH Alerts**

The UH Alert emergency notification system alerts the university community in the event of a natural, health or civil emergency. The information you provide will only be used in the event of an emergency that impacts the health and safety of the UH community or the closure of whole campuses. It will not be shared with others or used for routine UH communications or announcements. To sign up, visit [UH Alerts website](#) for more information.

## **Financial Aid**

If you are receiving financial aid and are contemplating not completing the course, BEFORE you withdraw, it is highly recommended that you contact the Financial Aid Office at 808-934-2712 or email them at [wccfao@hawaii.edu](mailto:wccfao@hawaii.edu) to discuss the impact this decision may have on your financial aid eligibility.

## **Student Conduct Code**

Windward Community College follows the University of Hawai‘i Code of Student Conduct which defines expected conduct for students and specifies those acts subject to University sanctions. Students should familiarize themselves with the Code of Student Conduct since, upon enrollment at Windward Community College, the student has placed herself/himself under the policies and regulations of the University and its duly constituted bodies. The disciplinary authority is exercised through the Office of the Vice Chancellor for Student Affairs. Copies of the Student Conduct Code are available at the Office of the Vice Chancellor for Student Affairs or [online](#).

## **Title IX - Sex Discrimination And Gender-Based Violence Resources**

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](mailto:advocate@hawaii.edu)  
 Office: Hale Kāko‘o 107 (Wednesdays)

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

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

Karen Cho, Deputy Title IX Coordinator  
Phone: (808) 235-7404  
Email: [kcho@hawaii.edu](mailto: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/](http://manoa.hawaii.edu/titleix/)

## ALTERNATE CONTACT INFORMATION

If you are unable to contact the instructor, please contact Dr. Krause at [jkrause7@hawaii.edu](mailto:jkrause7@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.**