

ANSC 271

Anesthesiology and Surgical Nursing for Veterinary Technicians

CRN 61218: Monday 9:30 am– 12:00 pm (Imiloa 117)

Instructor: Jenny Kelly, DVM
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Office Hours: by appointment
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Effective Date: Fall 2017

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 will focus on the clinical skills necessary for safe and effective anesthesia and surgery of companion animal patients (dogs and cats). Skills such as intravenous catheter placement, proper endotracheal intubation, patient and surgical site preparation, and patient monitoring under general anesthesia will be stressed. The use and side effects of commonly used sedatives, analgesics and anesthetics will be covered. Postoperative procedures include patient monitoring and charting as well as client education for postoperative care. (3 hours lecture)

Prerequisite: Admission into Veterinary Technology program

Activities Required at Scheduled Times Other than Class Times: None

Student Learning Outcomes

Upon successful completion of ANSC 271/271L, the student should be able to:

- Understand the proper operation of anesthetic delivery equipment and monitoring instruments.
- Explain all aspects of anesthetic monitoring.
- Understand and integrate all aspects of patient management for common surgical procedures in companion animal species.
- Identify and provide appropriate instruments, supplies and environment to maintain asepsis during surgical procedures.
- Demonstrate understanding of routine surgical procedures including surgeries in these categories: ovariohysterectomy, cesarean section, orchiectomy, laparotomies, and orthopedic procedures.

Course Content

- Anesthesia and Anesthetic Monitoring
- Surgical Instruments
- Aseptic Technique
- Surgical Nursing
- Pain Management
- Fluid Therapy

- Transfusion Medicine
- Types of Veterinary Surgery

Course Tasks

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

Assessment Tasks and Grading:

ATTENDANCE Lecture: (50 points): 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 10 points from the student's attendance score. 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.

Additionally, attendance for class guest lectures is imperative. Missing a guest lecture will result in an automatic deduction of 25 points.

Exams: Exams are worth 200 (midterm) and 300 (Final) points each. 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 take home, and will require you to apply knowledge from the course materials to hypothetical real life cases. The final exam will be cumulative multiple choice, and the focus will be on knowledge needed for the Veterinary Technician Exam.

Please note you are required to have 100% of your Clinical Skills checked off, complete all assignments and tests, and **obtain a score of at least 70% on the final exam to pass the course.** There will be ample opportunity during labs to complete the skills, but it is your responsibility to ensure you complete them all.

METHOD OF GRADING

- Exams - 500 points
- Attendance – 50 points
- Class assignments & quizzes - 200 points

GRADING SCALE

Total Points and Grade Equivalent

675 - 750	A
600 - 674	B
525 - 599	C
450 - 524	D
<450	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.

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 2016-2017 course catalog for a description of the University's policies concerning academic dishonesty.

Learning Resources

Textbooks:

Small Animal Surgical Nursing: Tear M. Elsevier Mosby, St. Louis, MO. 3rd Edition.

Anesthesia and Analgesia for Veterinary Technicians: Thomas, J. and Lerche, P. Elsevier Mosby, St. Louis, MO. 5th Edition.

Science Direct: science database available through the library learning commons link from the WCC website or at <http://www.sciencedirect.com/>

Veterinary Anesthesia and Analgesia Support Group <http://www.vasg.org>. This is an extensive free resource, geared to the veterinary practitioner and nursing staff, covering all things related to anesthesia of the veterinary patient.

Additional Information

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. Students enrolled in ANSC 271/271L are automatically enrolled in the ANSC 271/271L Laulima website. To access, go to <https://laulima.hawaii.edu/portal>. Login using your UH username and password and click on ANSC 271/271L.

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 Laulima 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.

Schedule: Subject to Change

Note: Besides the readings in textbooks, other resources may be added for additional information, they will be uploaded to the Laulima site under Resources (handouts/reading material).

ANSC 271 Schedule: Subject to Change Fall 2017

Week 1:

August 21st: Introduction/Syllabus

Asepsis, OR Personnel, Preoperative Prep, Intra-Operative Duties

Reading: Tear pp 2-4, 13-18, 68-83, Chapters 5-7

Week 2:

August 28th:

Surgical Instruments and their Uses & suture material basics

Reading: Tear pp 18-39

and Injectable Anesthetics

Reading: Thomas pp 52- 83

Analgesics

Week 3:

September 4th: HOLIDAY – Labor Day

Week 4:

September 11th:

Inhalant Anesthetics (Reading: Thomas pp 83-92)

Guest Speaker: Kathleen Baxter: Anesthesia Machine and Equipment

(Reading: Thomas Ch.4 & Tear pp. 1-18) **AND**

Anesthetic Monitoring in Depth (Reading: Thomas chaps. 4 & 9; Tear Ch. 4)

Week 5:

September 18th:

Guest Speaker: Kathleen Baxter: Advanced Techniques; Mechanical Ventilation

(Reading: Thomas pp. 230-235)

Anesthetic complications/problems & emergencies I (Thomas Ch. 13)

Week 6:

September 25th:

Anesthetic complications/problems & emergencies II (Thomas Ch. 13)

Rehabilitation, Post-Operative Cleaning & Care, Analgesia; Chronic Pain Management

(Reading: Tear Ch. 9-12; Thomas Ch. 8)

Week 7:

October 2nd:

Guest Speaker: Kathleen Baxter: CRIs (handouts/reading material)

EKG basics (Thomas pp. 167-180) – Dr. Kelly

Week 8:

October 9th:

Guest Speaker: Kathleen Baxter: Blood Transfusions
(Handouts/reading material & Thomas pp. 38-49)

*******EXAM ONE in testing center *******

For Topics below (weeks 9-12): Readings from - TEAR ch. 8

Week 9:

October 16th: Urogenital surgery presentations

Surgery of the Reproductive System
Reading: Tear pp 150-160; Articles posted on Laulima

Week 10:

Reading: Tear pp 175-190

October 23rd: Orthopedic surgery presentations

Week 11:

October 30th: Gastrointestinal Surgery Presentations

Emergency Surgeries and Miscellaneous Procedures

Week 12:

November 6th: Neurosurgery & Surgeries involving the Liver & Spleen Presentations

Week 13:

November 13th: Equine anesthesia (Reading: Thomas Ch. 10)

Swine anesthesia (Reading: (Reading: Thomas Ch. 11)

Week 14:

November 20th: Anesthesia of Rabbits, Rodents, and Ruminants (Reading: Thomas Ch. 11, 12)

Week 15:

November 27th:

Fiber Optic Equipment and Procedures

Reading: Tear pp 186-205

Week 16:

December 4th: Catch up & Final Exam Review

December 6th: Annex clean-up; all students

Finals week: December 9th – 15th

Final Exam will be in the Testing Center

Important Dates:

August 25th - Last day to drop for **100% refund**

September 12th - Last day for **50% refund &** Last Day to Withdraw **without** a "W" Grade

October 30th - Last day to withdraw with a **“W” grade**

December 7th – Last day of instruction

December 15th – Last day of Fall Semester