

ANSC 271

Anesthesiology and Surgical Nursing for Veterinary Technicians

CRN 63396: Monday & Friday 10:00 - 11:15 am (Imiloa 117)

Instructor: Jenny Kelly, DVM
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Office Hours: by appointment
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Effective Date: Fall 2016

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: ovariectomy, 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 5 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 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 - 400 points
- Attendance – 50 points
- Class assignments & quizzes - 200 points

GRADING SCALE

Total Points and Grade Equivalent

585 - 650	A
520 - 584	B
455 - 519	C
390 - 454	D
<390	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 2015-2016 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. 2nd 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).

Week 1:

August 22nd & August 26th: Introduction/Syllabus

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

Reading: Tear pp 2-4, 13-18, 37, 67-80, Thomas Chapters 2-4, pp 121-128; McCurnin's Ch. 30-31

Week 2:

August 29th:

Surgical Instruments and their Uses & suture material basics

Reading: Tear pp 18-38, pp 128-130; McCurnin's Ch. 30; & other resources

The Anesthetic Patient

Reading: Thomas Ch. 8

September 2nd:

Analgesics and Injectable Anesthetics

Reading: Thomas pp 50-84(4th ed.); 52-83 (5th ed.); McCurnin's pp 1045-1062 & 1075-1086

Week 3:

September 5th: HOLIDAY – Labor Day

September 9th:

Guest Speaker: Kathleen Baxter: Anesthesia Machine and Equipment (Reading: Thomas Ch. 4 & Tear pp 4-18 & McCurnin's pp 1087-1102)

Week 4:

September 12th:

Inhalant Anesthetics [Reading: Thomas pp 84-92 (4th ed.); 83-91 (5th ed.)]

September 16th:

Guest Speaker: Kathleen Baxter: Anesthetic Monitoring in Depth (Reading: Thomas pp: Ch. 5 & Tear Ch. 5 & McCurnin's pp 1102 - 1118)

Week 5:

September 19th:

Guest Speaker: Kathleen Baxter: Advanced Techniques; Mechanical Ventilation

(Reading: Thomas Ch. 6; McCurnin's pp 1125-1126)

September 23rd:

Anesthetic complications/problems & emergencies I (Thomas Ch. 12; McCurnin's pp 921-927)

Week 6:

September 26th:

Anesthetic complications/problems & emergencies II (Thomas Ch. 12)

September 30th:

Rehabilitation, Post-Operative Care, Chronic Pain Management

Reading: Tear Ch. 8-11; Thomas Ch. 7; McCurnin's Ch. 28

Week 7:

October 3rd: Exam #1 handed out

Guest Speaker: Kathleen Baxter: CRIs (Reading: McCurnin's pp 1059-1061)

October 7th:

EKG basics

Readings: McCurnin's pp 933-944; handouts/resources

Week 8:

October 10th:

Guest Speaker: Kathleen Baxter: Blood Transfusions (Reading: Tear pp 234-236; McCurnin's pp 895-904)

October 14th: Emergency Surgeries and Miscellaneous Procedure

Reading: Tear pp 133-144, 166-174

Fiber Optic Equipment and Other Procedures

Reading: Tear pp 193-223

EXAM ONE DUE (October 14th)

For an overview of surgical procedures: Read: Tear Ch. 7 & McCurnin's Ch. 32

Week 9:

October 17th: Urogenital surgery presentations (4)

October 21st:

Surgery of the Reproductive System; High Volume, High Quality Spay and Neuter
Management of Community Cat Colonies

Reading: Tear pp 150-160; Articles posted on Lulima

Week 10:

Reading: Tear pp 175-190

October 24th: Orthopedic surgery presentations (3)

October 28th: TBA

Week 11:

October 31st: Gastrointestinal Surgery Presentations (3)

November 4th: TBA

Week 12:

November 7th: Neurosurgery & Surgeries involving the Liver & Spleen Presentations (3)

November 11th: Holiday – Veterans Day

Week 13:

November 14th: Equine anesthesia (Reading: Thomas Ch. 9; McCurnin's pp 1118 – 1122)

November 18th: Swine anesthesia (Reading: (Reading: Thomas Ch. 10)

Week 14:

November 21st: Anesthesia of Rabbits, Rodents, and Ruminants (Reading: Thomas Ch. 10, 11; McCurnin's pp 1122 -1125)

November 25th: **Thanksgiving Holiday**

Week 15:

November 28th: Wound Management & Bandaging Basics (Reading: Tear pp 239-245 & McCurnin's pp 971-993)

December 2nd: TBA

Week 16:

December 5th: **Final** Exam Review

December 7th/8th: Annex clean-up; all students

Finals week: December 10th – 15th: Final Exam in Testing Center

Important Dates:

August 26th - Last day to drop for **100% refund**

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

November 3rd - Last day to withdraw with a **“W” grade**

December 8th – Last day of instruction

December 16th – Last day of Fall Semester