

Small Animal Veterinary Anesthesia
Animal Health (ANHLT) 141
Fall 2021

Section 0542, 1.5 Semester Units

Doyle 212 & 211, Petaluma Campus of the Santa Rosa Junior College

Suggested Prerequisites: Bio 10 or equivalent college biology course

Prerequisites: Animal Health 50 (formerly 110)

Instructor: Kris Clothier, DVM PhD

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Office Hours: Tuesdays before or after class on the Petaluma Campus or as scheduled

Course Description:

This course will provide an overview of the use of anesthesia for the small animal veterinary workplace.

Students will become familiar with anesthetic medications, **anesthetic instrumentation** and equipment, patient assessment, **anesthetic induction**, and **anesthetic monitoring** and response for the small animal patient.

This course is part of the SRJC program that fulfills the academic requirements to be eligible to sit for the California Registered Veterinary Technician board exam via the Alternate Route.

Course Objectives:

Upon completion of this course, the student should be able to:

1. Discuss the indications and risk factors for anesthetic procedures.
2. Evaluate anesthesia logs and anesthetic medical records.
3. Describe the stages of anesthetic depth and equipment to monitor anesthetized patients.
4. Identify anesthetic equipment including parts of inhalant anesthetic machines.
5. Describe common anesthetic emergencies and appropriate response to correct anesthesia related complications.
6. Evaluate protocols for anesthetic procedures.
7. Identify common veterinary medications and mechanism of action of anesthetic medications.
8. Discuss appropriate use and selection of anesthetic medications.
9. Perform drug dosage calculations for oral and parenteral medications.

Please save this syllabus if you intend to sit for the California board examinations for Registered Veterinary Technicians. The board **will** ask to review syllabi to verify course content for all required courses.

Text: Anesthesia and Analgesia for Veterinary Technicians. 5th ed. Thomas, John and Lerche, Phillip. Mosby. 2016

Course and Classroom Policies:

Attendance:

Course Schedule: Every week on Tuesday from 7:30-9pm.

First Day of class **8/17/21** through Final Exam **12/14/21**

1. The following requirements apply to absences NOT related to Covid-19. If you test positive for Covid-19, please contact the instructor so that we can make arrangements to provide instructional material during the quarantine period.
2. It is important for students to attend every class. Every class is a new topic, being absent in a single class will mean missing the information covering one or more diagnostic procedures.
 - a. Do **not** contact the instructor to be updated on information from missed classes.
 - b. **It is the responsibility of each student to be present during all course hours or arrange with another student to obtain missed information.**
3. NO POINTS CAN OR WILL BE EARNED FOR A MISSED CLASS ASSIGNMENT OR A MISSED EXAMINATION EXCEPT FOR THE MOST EXTRAORDINARY CIRCUMSTANCES. Permission for making up any missed work will be granted only for authorized absences arranged in ADVANCE of the absence in case of sickness, injury, college approved field trip or activity, or death in the immediate family. In those cases, it is the responsibility of the student to notify the professor prior to the class. Make-ups for missed work and examinations will be considered only if all of the following conditions have been met:
 - a. You called or emailed the instructor before the class meeting.
 - b. You have a valid, legitimate, and substantiated excuse. A substantiated excuse requires something that is written on official letterhead stationery, that can be verified, and for which there was no alternative.
4. An authorized absence does not excuse students from any course work.
5. Work missed due to unauthorized absence cannot be made up and a grade of zero will be recorded. Also, work not made up within one week of returning to class, due to authorized absence will receive a grade of zero.
6. Students who miss 10% of instruction (two classes) are subject to being dropped from the class. This is not a guarantee. If a student intends to drop the course, it is their responsibility to do so.

Communication and Class notes:

1. Email is the primary means of communication outside of class instruction time
2. It is the student's responsibility to ensure that SRJC has your correct email address and that the student checks their email regularly.
3. A copy of each lecture outline will be made available to students using in pdf, doc, or text format will be posted on Canvas prior to class. Additional reference materials and assignments will be posted in the accompanying week of the course.
4. Students are responsible for knowing and adhering to due dates for readings, assignments, and other in-class activities.
5. Changes to the schedule will be announced during class time and emailed to students. Students are responsible for noting all changes and adhering to them.

Classroom Behavior:

1. The SRJC has a diverse student population. Students will treat each other with respect regardless of differences in experiences or experience level. Students with extensive workplace experience who wish to share with classmates will be given opportunities and encouraged through class participation and discussion.
2. Every student will abide by the SRJC Student Code of Conduct. Because personal accountability is inherent in an academic community of integrity, this institution will not tolerate or ignore any form of academic dishonesty.
 - a. Academic dishonesty is regarded as any act of deception, benign or malicious in nature, in the completion of any academic exercise.
 - b. Examples of academic dishonesty include cheating, plagiarism, impersonation, misrepresentation of idea or fact for the purpose of defrauding, use of unauthorized aids or devices, falsifying attendance records, violation of testing protocol, inappropriate course assignment collaboration, and any other acts that are prohibited by the instructor of record.
3. Please refer to SRJC policy 3.11 on Academic Integrity and the Student Conduct Code, which is in the SRJC Catalog and part of Policy 8.2.8, Student Discipline for more information.
4. Distracting activity such as cell phone use and texting must be done outside of class. Have all cell phones out of sight and off or in “silent” mode during class. Any classroom distraction by cell phones, including having an audible ring or vibration, will result in a deduction of 1% of from the course grade or enough dark chocolate or equivalent treat for the entire class.
5. No personal pets are allowed on SRJC campus. This includes in your car or in the classroom.

Academic Support and Students with Disabilities

1. Your success in this course depends upon minimizing barriers to learning as well as establishing an adequate foundation of academic skills.
2. If you need disability related accommodations for this class, such as a note taker, test taking services, special furniture, etc., please provide the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to the instructor as soon as possible.
 - a. You may also speak or email with the instructor privately during office hours about your accommodations.
 - b. If you have not received authorization from DRD, it is recommended that you contact them directly.

Program	Location	Phone
College Skills	Analy Village #601	527-4834
Disability Resources	Analy Village #637	527-4278
In Petaluma:	Jacobs Hall #101	778-2491
Tutorial Center	Doyle Library #4251	521-6903
In Petaluma:	Doyle Hall	778-2409
Writing Center	Emeritus Hall, #1629	527-4351
In Petaluma:	Call Building #690	

Emergencies

1. In an emergency, District Police can be reached at **(707) 527-1000**. This same number is used on all SRJC campuses
2. In the event of an emergency during class that requires evacuation of the building, please leave the class immediately, but calmly. Our class will meet to make sure everyone got out of the building safely and to receive further instructions.
3. You can subscribe to either email or text announcements from SRJCPolice and other local law enforcement via Nixle. Visit www.nixle.com to enroll for this free service.

Assessment and Grading:

Quizzes – 20%

- Four Quizzes, each worth 5% of total grade
 - Quiz questions may be multiple choice, true/false, matching, identification, fill-in, protocol evaluation or short answer.
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Final Exam – 37%

- 12/14/21, will cover material from entire course
 - Exam questions may be multiple choice, true/false, matching, identification, fill-in, protocol evaluation or short answer.
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In-Class Participation -17%

- Class sessions will have either in-class review questions or a group participation activity
 - Each class is worth 1% of your total grade
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Anesthesia Protocol = 10%

- The goal of this assignment is to create a functional reference that is useful in the workplace
 - You will be select the full drug protocol to be used for a patient
 - Can be any species of patient of your choosing
 - Must include pre-op, induction, maintenance and post-op meds
 - Your drug selections are due 9/21 (2% of total grade)
 - Your drug selections in the form of a dose calculating spread sheet (3% of total grade) is due on 10/12
 - Reference with special considerations for each drug due 11/2 (5% of total grade)
 - Can be organized by drug or by organ system
 - Include all relevant information such as side effects, contra-indications, drug interactions, impact on monitoring, etc
 - Can be either paragraph or bullet point format
 - Expected length 2-3 pages
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Special Anesthesia Topic = 15%

- You will be assigned 1 to 2 partners and a chapter from the text on 10/12 to summarize in the following assignments:
- A reference sheet for use in a clinical setting
 - Expected length 1-2 pages
 - 5% of total grade, due 11/16
- A client handout aimed at informing a potential owner relevant information
 - Expected length 1 pages
 - 3% of total grade, due 11/16
- A five to seven minute in-class presentation (11/16, 11/30, or 12/7)
 - 7% of total grade
 - Make it useful for your classmates (colleagues)

NO make-up exams or quizzes will be given except for excused absences as outlined earlier in this syllabus.

Your final grade will be given on the following scale:

90-100% = A

80-89% = B

70-79% = C

60-69% = D

Below 60% = F

A credit/no credit option is available for this class.

Date	Class	Topic	Reading
8/17/21	1	Course Introduction, Introduction to Anesthesia, Terminology, Calculations	Ch 1
8/24/21	2	Pre-Anesthetic Preparation and Patient Assessment, Anesthetic Equipment part 1	Ch 2, Ch 4 pp 100-116
8/31/21	3	Anesthetic Equipment part 2, operation and maintenance to prepare for the anesthetized patient	Ch 4 pp 116-136
9/7/21	4	Quiz 1 (classes 1-3) Anesthetic Medications part 1	Ch 3 (pp 52-72) Ch 9 (pp 273-276)
9/14/21	5	Anesthetic Medications part 2	Ch 3 (pp 72-92) Ch 9 (pp 276-287)
9/21/21	6	Anesthetic Induction and Intubation	Ch 3 (pp 95-100) Ch 9 (pp 287-299)
9/28/21	7	Quiz 2 (classes 4-6) Anesthetic Monitoring part 1: Depth Assessment	Ch 6, 9
10/5/21	8	Anesthetic Monitoring part 2: Cardiovascular System	Ch 6, 9
10/12/21	9	Anesthetic Monitoring part 3: Recordkeeping	Ch 6, 9
10/19/21	10	Quiz 3 (classes 7-9) Anesthetic Recovery	Ch 9
10/26/21	11	Analgesia and nursing care	Ch 8, 9
11/2/21	12	Special Techniques	Ch 7
11/9/21	13	Quiz 4 (classes 10-12) Advanced Cardiovascular System Support	Ch 13
11/16/21	14	Student Presentations. Advanced Respiratory System Support and IPPV	Ch 13
11/23/21	15	Additional animal species anesthetic techniques (live and recorded session)	
11/30/21	16	Student Presentations. Special patient considerations	Ch 13
12/7/21	17	Student Presentations. Anesthetic Emergencies	Ch 13
12/14/21	Final Exam		