

VEM5472 Small Animal Anesthesiology

SEMESTER: SPRING 2021

CREDIT HOURS: 1 CREDIT HOUR

GRADING SYSTEM: A-E GRADING

PHASE: III

Course Coordinator

Name: Luisito Pablo, DVM, MS, Diplomate ACVAA

Phone: 352-226-4582

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Office Hours: By appointment only.

Course Description

Small Animal Anesthesiology VEM 5472 is a one-hour credit elective course, which consists of sixteen lectures. The main objectives of the course are to provide students the essential information for a safe practice of small animal anesthesia, guide the students in applying physiology and pharmacology in small animal anesthetic practice, and point out the principles behind the techniques performed in small animal anesthesia.

Student Learning Outcomes

After successful completion of this course, students will be able to:

1. Set up an anesthetic machine and a breathing circuit in small animals
2. Explain the application of the monitoring equipment and significance of the results from the different monitoring tools used in small animal anesthesia.
3. Justify drug choice and form of drug delivery based on side-effects, contraindications, and considerations for different small animal species
4. Explain how to assess and manage pain in small animals
5. Explain the safety protocols and indications for using nonsteroidal antiinflammatory drugs with small animals
6. Explain the safety protocols and indications for neuromuscular blocking drugs used with small animals
7. Describe the methods of stabilization and supportive care for emergency cases
8. Explain the preparations, induction, monitoring, and handling considerations for small mammals in each of the stages of anesthesia (preoperative, operative, and postoperative).

9. Describe the local anesthetic techniques and drugs that are appropriate based on clinical indications
10. Describe the common causes and responses to anesthesia complications
11. Adjust anesthetic protocols in compromised patients
12. Describe the clinical indications for specific types of specialized ventilation

Course Schedule

This weekly schedule contains topics, assignments, and exams. Please refer to Canvas for updates and announcements to any changes to this schedule.

Class meetings will be held in the Equine Auditorium.

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Contact Hours</i>
03-01-2021 10:30-11:20am	Introduction to the course Review: Anesthetic machine (Small animal)	PABLO *Gatson	1	1.0
03-01-2021 11:30 am-12:20 pm	Choosing injectable agents in small animal practice	JOHNSON *Pablo	3	1.0
03-02-2021 1:00-1:50 pm	Total IV Anesthesia	PORTELA *Pablo	3	1.0
03-02-2021 2:00-2:50 pm	Choosing inhalant agents in small animal practice	PORTELA *Pablo	3	1.0
03-04-2021 1:00-1:50 pm	Monitoring in small animals	PORTELA *Pablo	2	1.0
03-04-2021 2:00-2:50 pm	Management of ventilation and gas exchange in anesthetized small animals	JOHNSON *Pablo	12	1.0
03-05-2021 1:00-1:50 pm	Perioperative use of NSAIDS in small animals	GATSON *Johnson	5	1.0
03-05-2021 2:00-2:50 pm	Clinical use of neuromuscular blocking agents in small animals	ROMANO *Pablo	6	1.0
03-08-2021 10:30-11:20am	Perioperative pain management	JOHNSON *Gatson	4	1.0
03-08-2021 11:30 am-12:20 pm	Local anesthetic techniques in small animals	PORTELA *Pablo	9	1.0
03-09-2021 10:30-11:20 am	Drugs used in the epidural space of small animals	ROMANO *Gatson	3	1.0
03-09-2021 11:30 am-12:20 pm	Anesthesia of small mammals	JOHNSON *Gatson	8	1.0

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Contact Hours</i>
03-10-2021 10:30-11:20 am	Perioperative cardiac arrhythmias: Recognition and management	ROMANO <i>*Pablo</i>	10	1.0
03-10-2021 11:30 am-12:20 pm	Management of anesthetic complications (Part 1)	PABLO <i>*Gatson</i>	10	1.0
03-11-2021 10:30-11:20 am	Management of anesthetic complications (Part 2)	PABLO <i>*Gatson</i>	10	1.0
03-11-2021 11:30 am-12:20 pm	Emergency anesthesia	GATSON <i>*Pablo</i>	7	1.0
03-12-2021 10:30-11:20 am	Anesthesia for small animal patients with specific diseases (Part 1)	PABLO <i>*Gatson</i>	11	1.0
03-12-2021 11:30 am-12:20 pm	Anesthesia for small animal patients with specific diseases (Part 2)	PABLO <i>*Gatson</i>	11	1.0
03-15-2021 at 10:00 am-12:20 pm	FINAL EXAMINATION	PABLO		

*Back up faculty in italics.

Required Textbooks and/or Course Materials

None

Recommended Textbooks and/or Course Materials

- 1) Grimm KA, Tranquilli WJ, Lamont LA.: Essentials of Small Animal Anesthesia and Analgesia, 2nd ed, 2011.
- 2) Carroll G: Small Animal Anesthesia and Analgesia, 2008.

Methods of Evaluation

Grades will be calculated based on the following:

Item	Weight
Final Exam	100 %
Total	100 %

Exams will be delivered via Canvas with proctoring through ExamSoft.

Grading Scheme

Course grades will be assigned based on the following grading scheme. This grading scale is **final**.

Letter	Scale
A	100.00 – 94.00
A-	93.99 – 90.00
B+	89.99 – 87.00
B	86.99 – 84.00
B-	83.99 – 80.00
C+	79.99 – 77.00
C	76.99 – 74.00
C-	73.99 – 70.00
D+	69.99 – 67.00
D	66.99 – 64.00
D-	63.99 – 61.00
E	60.99 – 0

Course Policies

Class Attendance

The students enrolled in the course are encouraged to attend the Zoom lectures.

The College of Veterinary Medicine asks that students, when possible, have cameras turned on for courses in the professional curriculum, which facilitates participation and professional communication. Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

This course will be delivered in-person in the Equine Auditorium to a group of students on a rotating basis. Faculty who are lecturing in the classroom will be required to wear a mask. The members of the class who are not physically present in the classroom will be attending the live synchronous lecture via Zoom. The group of students who attend physically each day will follow physical distancing and masking requirements. Eating or drinking while in the classroom during lecture is prohibited.

Additional guidelines for online learning and face-to-face learning are detailed below:

Online Learning Policies:

The College of Veterinary Medicine asks that students, when possible, have cameras turned on for courses in the professional curriculum, which facilitates participation and professional communication. Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a

profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Face-to-Face Learning Policies:

In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

- You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.
- Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
- Follow your instructor's guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom.
- If you are experiencing COVID-19 symptoms (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>), please use the UF Health screening system (<https://coronavirus.ufhealth.org/screen-test-protect/covid-19-exposure-and-symptoms-who-do-i-call-if/>) and follow the instructions on whether you are able to attend class.
 - Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>).

Curriculum Policies

DVM curriculum policies are consistently held and reinforced across all DVM courses. Please visit the DVM webpage and review the curriculum policies listed within the [Online Student Handbook](#).

Students with Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting www.disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. **Students in UF Health Sciences programs should be mindful that unique course accommodations may not be applicable in a clinical, fieldwork or practicum setting. Thus, planning a semester in advance with the DRC Health Sciences Learning Specialist, Lisa Diekow ldiekow@ufsa.ufl.edu, is highly encouraged.**

The DRC is located on the main UF campus. ASA (Office for Academic and Student Affairs) works closely with the DRC to ensure student accommodations are met in the classroom and during exams. Melissa Cox in ASA assists in coordinating exams and meeting recommended disability-related requirements for students with accommodations (melissacox@ufl.edu).

Course and Instructor Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available on the [GatorEvals Webpage](#). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via the [Online Platform](#). Summaries of course evaluation results are available to students at the [GatorEvals Public Results Webpage](#).

Office location and office hours

VC-106; By appointment only as a result of the clinical commitment of the faculty and appointment can be made by e-mailing Dr. Pablo at pablochi@ufl.edu

Appendix A: Faculty Lecturers

Faculty Name: Luisito Pablo

Email: pablochi@ufl.edu

Faculty Name: Bonnie Gatson

Email: bonniejh@ufl.edu

Faculty Name: Alanna Johnson

Email: Johnson.a@ufl.edu

Faculty Name: Diego Portela

Email: dportela@ufl.edu

Faculty Name: Marta Romano

Email: marta.romano@ufl.edu

Appendix B: Other Information