

# VT 201 : ANESTHESIOLOGY AND SURGERY TECHNIQUES

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## Transcript title

Anesthesiology Surg Tech

## Credits

4

## Grading mode

Standard letter grades

## Total contact hours

60

## Lecture hours

30

## Lab hours

30

## Prerequisites

VT 111, VT 112, VT 113, and VT 116.

## Corequisites

VT 200, VT 203, VT 209, VT 212.

## Course Description

Covers the principles and practices of veterinary anesthesia and surgical assistance.

## Course learning outcomes

1. Calculate dosages of anesthetic and emergency drugs.
2. Explain methods for monitoring patient status during anesthetic procedures and the appropriate response to patients in compromised states.
3. Explain pain management protocols and the decision-making process for implementation.
4. Describe and demonstrate proper operation of anesthetic delivery and monitoring equipment.
5. Identify surgical instruments and describe their use.
6. Explain methods for and perform preparation of surgical instruments, gowns and drapes.
7. Describe and demonstrate aseptic techniques for patient preparation and surgical assisting.
8. Explain and identify common suture materials, types and sizes.

## Content outline

Lecture I. Intro, anesthetic definitions, panentheistic evaluation, ASA status II. IV catheterization, fluid therapy, endotracheal intubation, anesthetic record, controlled drugs log III. Instrument packs, instrument care, sterilization, autoclaves IV. Premedication and sedation, anesthetic induction V. Inhalant anesthetics/Anesthesia Machines VI. Aseptic operating room techniques, sterile hand scrubbing, gowning, gloving VII. Stages of anesthesia, monitoring VIII. Maintenance of anesthesia, recovery IX. Surgical site preparation, patient positioning X. Technician's

Role in Pain management XI. Suture materials, suture patterns, needles, tissue handling XII. Ventilation techniques, anesthesia for high risk patients XIII. Anesthetic problems and emergencies XV. Client Education for post-op care Lab I. Lab Orientation Surgical Instruments Operating room sanitation ASA Status Drug Calculations Log Books II. Instrument Care Autoclave use and maintenance Wrapping packs, folding gowns Pack and Individual instrument sterilization III. Anesthetic machines, their components and waste anesthetic gases IV. Opening packs Aseptically passing instruments Gloving – open and closed V. Monitors (pulse oximeter, ECG, BP) IV fluid calculation, fluid pump Endotracheal intubation (model) BMBT VI. Positioning and surgical prep of patient Scrubbing for surgery Gowning and gloving for surgery VII. Dental instruments and technique Suture material and needles Staples Suction machine and tips VII. Technician Roles: Anesthesia Tech, Surgical Nurse, Circulating Tech, Dental Tech Practice: Exam, bloodwork, ASA status, drug calculations, anesthetic plan Positive Pressure Ventilation IX. Practice: Exam, bloodwork, ASA status, drug calculations, anesthetic plan

## Required materials

Textbook, scrubs, stethoscope, watch with second hand, bandage scissors, small animal thermometer, COCC nametag