

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
VET 122 - CLINICAL PRACTICES II (3 CR.)**

Course Description

Presents advanced clinical techniques commonly performed in veterinary practice. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

Apply the concepts of veterinary diagnostic imaging techniques, animal preparation, radiology, sedation/anesthesia to an actual patient case.

Course Prerequisite/Corequisite

Prerequisites: VET 121. Enrollment is limited to students program-placed in the veterinary technology curriculum or those students with special approval from the program head.

Course Objectives

Under supervision of a staff veterinarian and licensed veterinary technicians, the students will model working together as part of the veterinary healthcare team similar to the clinical practice environment. This includes patient presentation and assessment, laboratory evaluation, radiology, anesthesia, post-anesthesia recovery and medical recordkeeping.

Upon completion of the course, the student will be able to:

- Produce diagnostic radiographs safely (position patients, expose and develop radiographs)
- List and describe the basic functioning of radiographic equipment and supplies
- Explain and follow safety regulations
- Develop radiographic technique charts used for canines and felines
- Describe the principles of and apply special radiographic techniques and contrast agents
- Determine appropriate radiographic exposure factors such as Ma, KvP, time, distance, etc. and how they relate to each other
- Position live small animal and equine patients for common survey radiographs
- Position canine patients for OFA hip radiographs
- Analyze radiographs for overall quality (patient position and technique) and recommend changes to improve the quality
- Identify normal radiographic anatomy and how it relates to positioning of patients
- Create and maintain radiographic records such as film and digital files and logbooks
- Recognize and explain basic techniques for radiographing patients in distress and emergency situations
- Recognize and understand the different handling and restraint methods utilized for avian and exotic species
- Define and compare the basics of computer-based imaging techniques: CR and DR digital radiography, magnetic resonance imaging (MRI), computed tomography (CT scan) and nuclear medicine
- Perform basics of livestock/equine radiography (portable machines, positioning) and compare technique with small animal radiography
- Explain basics of endoscopy then demonstrate appropriate use and maintenance of an endoscope
- Understand the basics of ultrasound and use of the machine

Major Topics To Be Covered

- Applied concepts in veterinary radiology and role of veterinary technician in clinical practice
- Minimizing X-ray exposure and personnel safety
- Positioning and processing of diagnostic radiographs for various animal species
- Maintenance of equipment, supplies, and radiographic records