

VT 204 : DIAGNOSTIC IMAGING

Transcript title

Diagnostic Imaging

Credits

3

Grading mode

Standard letter grades

Total contact hours

50

Lecture hours

20

Lab hours

30

Prerequisites

VT 200, VT 201, VT 203, VT 209 and VT 212.

Corequisites

VT 202, VT 206, VT 208.

Course Description

Covers the operation and use of fixed, portable, and dental x-ray machines; creating diagnostic images; radiographic positioning of animals; and evaluation of radiographic technique. Explores additional diagnostic imaging modalities, such as ultrasound, MRI, CT, and endoscopy.

Course learning outcomes

1. Utilize radiographic technique charts to obtain optimal radiographic exposures.
2. Explain and demonstrate proper positioning of dogs, cats, and horses for radiographic studies.
3. Explain how to modify diagnostic imaging techniques for lab and exotic animals.
4. Utilize fixed and portable radiographic equipment to create diagnostic radiographic images.
5. Create diagnostic radiographic images.
6. Summarize and demonstrate proper labeling, filing, and storage of radiographic images.
7. Critique radiographic images and describe specific measures to improve technique.
8. Explain and perform radiographic contrast studies.
9. Explain and demonstrate techniques for dental radiography of dogs and cats.
10. Summarize special diagnostic modalities, including ultrasound, MRI, CT, and endoscopy.

Content outline

1. Lecture/Lab (labs follow lecture topics)
 - a. Terminology and positioning, Dental radiography
 - b. Radiography of pelvis and pelvic limb
 - c. Radiography of thoracic limb
 - d. Radiography of thorax and abdomen
 - e. Radiography of skull and spine
 - f. Diagnostic imaging of equines
 - g. Contrast studies Avian and exotic radiography
 - h. CT, Fluoroscopy, MRI, Nuclear Medicine, Ultrasonography

Required materials

Textbook, scrubs, stethoscope, watch with second hand, bandage scissors, small animal thermometer, COCC name tag, dosimeter (supplied by COCC).