

VETT 202
Veterinary Imaging
3 Credits

Community College of Baltimore County
Common Course Outline

Description

VETT 202 – Veterinary Imaging: introduces the student to the theory, principles and uses of veterinary radiology, radiography, and other imaging modalities. The veterinary technician will learn radiographic technique and how to achieve the best quality. These diagnostics enable the veterinarian to diagnose and establish a treatment protocol for the patient. The course also introduces the student to the proper operation of equipment and associated safety protocols. The laboratory component is VETT 222, Veterinary Imaging Laboratory, in the following fall semester.

Pre-requisite(s): VETT 112, VETT 113, VETT 114, VETT 212

Co-requisite(s): VETT 203

Overall Course Objectives

Upon completion of this course, students will be able to:

1. define basic radiographic theory and terminology;
2. explain radiographic and personnel safety precautions;
3. explain standard radiographic positioning, technique and imaging of companion animals;
4. describe the use of radiographic technique charts;
5. explain the use of film and digital radiography (CR, DR), including DICOM (communication) and PACS (archival storage);
6. explain additional imaging modalities (ultrasound, CT, MRI, fluoroscopy, nuclear medicine, PET scan) used in veterinary medicine;
7. explain special imaging procedures (contrast studies) used in veterinary medicine; and
8. explain dental radiography positioning, technique, and imaging.

Major Topics

- I. Production and properties of x-rays, including electromagnetic radiation (EMR) spectrum
- II. Radiation safety, PPE
- III. Radiographic labeling and positioning devices
- IV. Radiographic quality
- V. Radiographic technique and technique charts
- VI. Exposure factors (kV, mA, s)
- VII. Patient positioning
- VIII. Imaging terminology
- IX. Special radiographic procedures (contrast studies)

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- X. Dental radiography (digital and film)
- XI. Additional imaging modalities (ultrasonography, CT, MRI, fluoroscopy, nuclear medicine, PET scan)
- XII. Standing, mobile and portable x-ray machines
- XIII. Recording image into patient record

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Two examinations
- Two assignments

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the most current APA format.

Other Course Information

An overall grade of “C” (70%) or higher is required for satisfactory completion of the course.

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