## SYLLABUS

### PART I

# EDISON STATE COMMUNITY COLLEGE VET 230S VETERINARY RADIOLOGY AND DIAGNOSTIC IMAGING 2 CREDIT HOURS

#### **COURSE DESCRIPTION**

Overview of radiology diagnostics, radiation safety, appropriate positioning for radiographs, and related imaging. Hands-on experience completed over 16 hours. Prerequisite: VET 160S. Lab fee.

#### **COURSE GOALS**

#### The student will:

Bloom's			Program
Level			Outcomes
3	1.	Determine proper measurements and positioning techniques to minimize repeat	1, 2, 3, 6
		exposures and to produce an image of diagnostic quality.	
5	2.	Anticipate and minimize risks to personnel and patients during radiographic	1, 2, 3, 6
		procedures.	
1	3.	Identify all radiographic, dark room materials, accessories, and individual	1, 2, 3, 6
		components of each piece of equipment to determine how they create a quality	
		image.	
1	4.	Identify maintenance requirements and faulty equipment.	1, 2, 3, 6
2	5.	Discuss the concepts used to create a technique chart.	1, 3, 8
1	6.	Identify and define proper directional terminology used in radiography.	1, 3, 8
2	7.	Discuss common large animal, avian, and exotic animal positions and	1, 2, 3, 6
		principles.	
3	8.	Transfer measurements and positioning techniques into medical records and	1, 3, 8
		radiology logs.	

#### **CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State Community College. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives and activities in this course will introduce/reinforce those Core Values wherever appropriate.

#### TOPIC OUTLINE

- 1. X-ray production
- 2. X-ray equipment
- 3. Radiation safety
- 4. Technique selection
- 5. Darkroom and process techniques
- 6. Technical errors and artifacts
- 7. Technique chart method
- 8. Radiographic quality
- 9. Positioning techniques
  - a. Hands-on techniques with both dogs and cats
- 10. Radiographic logs
- 11. Contrast radiography
  - a. GI Series

- 12. Digital radiography
- 13. Equine and large animal radiography
  - a. Hands-on technique with equine (portable)
- 14. Modifications of techniques for rodents, guinea pigs, birds, reptiles, and amphibians
- 15. Introduction to alternative imaging technology