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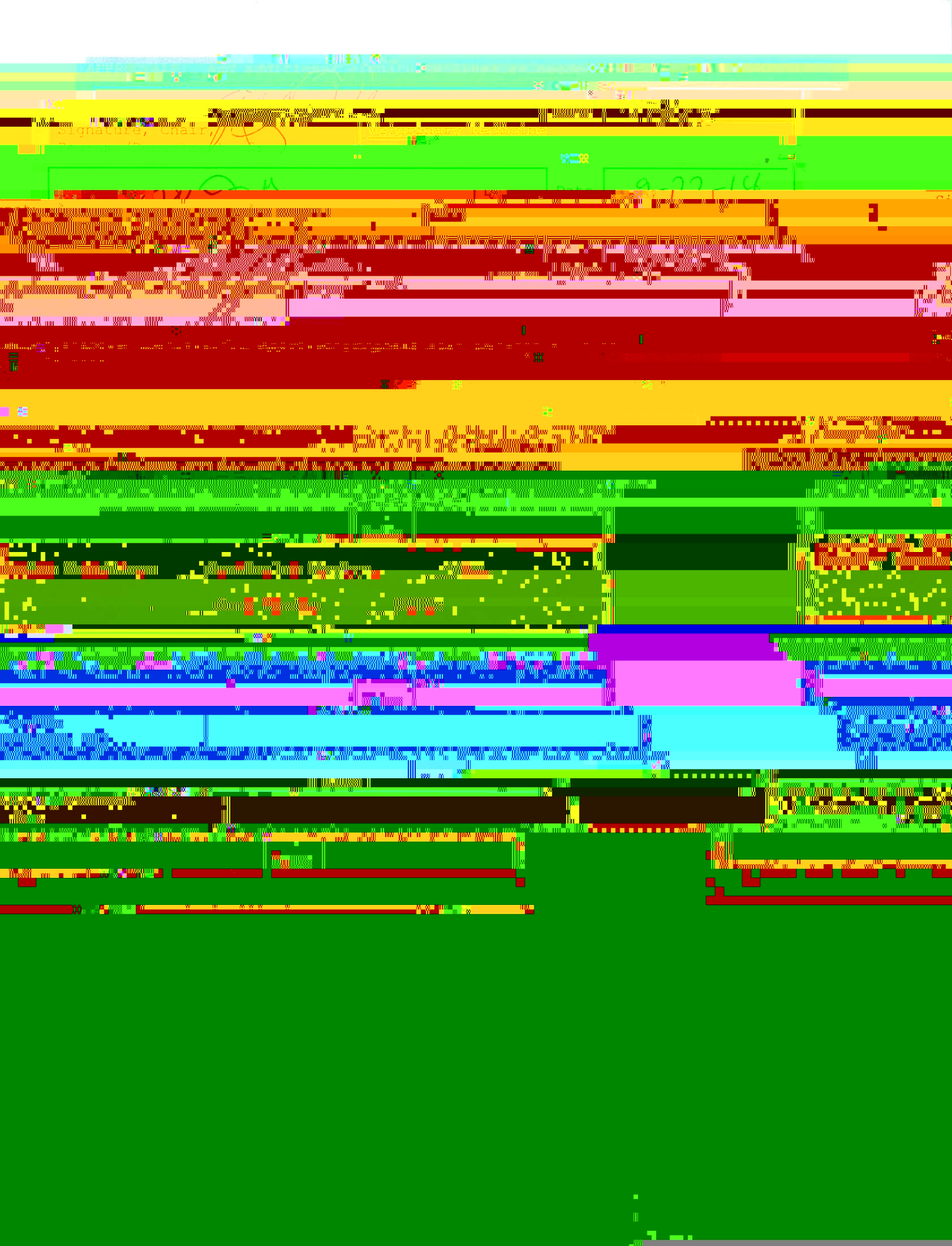
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DVM 625 PRINCIPLES OF DIAGNOSTIC IMAGING

SYLLABUS - FALL

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

1. Introduction to Diagnostic Imaging: Principles of X-ray, Ultrasound, MRI, and CT.

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

- 1.1. X-ray Imaging:
 - Principles of X-ray production and interaction.
 - Image formation and contrast.
 - Quality control and safety.
- 1.2. Ultrasound Imaging:
 - Principles of sound waves and reflection.
 - Image formation and contrast.
 - Quality control and safety.
- 1.3. MRI Imaging:
 - Principles of nuclear magnetic resonance.
 - Image formation and contrast.
 - Quality control and safety.
- 1.4. CT Imaging:
 - Principles of X-ray attenuation and reconstruction.
 - Image formation and contrast.
 - Quality control and safety.

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

2. Diagnostic Imaging in Small Animals:
2.1. Thoracic Imaging: Chest X-rays, Ultrasound, and CT.
2.2. Abdominal Imaging: Abdominal X-rays, Ultrasound, and CT.
2.3. Musculoskeletal Imaging: Radiography, Ultrasound, and MRI.

2.4. Neurological Imaging: Radiography, MRI, and CT.
2.5. Cardiac Imaging: Radiography, Ultrasound, and MRI.
2.6. Ocular Imaging: Radiography, Ultrasound, and MRI.

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

3. Diagnostic Imaging in Large Animals:
3.1. Thoracic Imaging: Radiography, Ultrasound, and MRI.
3.2. Abdominal Imaging: Radiography, Ultrasound, and MRI.

3.3. Musculoskeletal Imaging: Radiography, Ultrasound, and MRI.
3.4. Neurological Imaging: Radiography, MRI, and CT.

3.5. Cardiac Imaging: Radiography, Ultrasound, and MRI.
3.6. Ocular Imaging: Radiography, Ultrasound, and MRI.

4. Diagnostic Imaging in Exotic Animals:
4.1. Radiography: Principles and Applications.
4.2. Ultrasound: Principles and Applications.
4.3. MRI: Principles and Applications.

4.4. CT: Principles and Applications.

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CD on Interactive Programs on Veterinary Radiology. Kraft, Park et al. Colorado State University. This CD can

also be purchased at CSU in the Vet Text and will be used in all four years of your curriculum. It is PC

operating only. No MAC version is available. If you are a MAC user, you can view this program on the lab

computers.

4. Course Description:

The course will include an introduction to Radiographic anatomy of small and large animals; introduction to X-

doances in the virtual world while in the classroom. Do not use the Internet, text messages or mobile in

copies of data from a classmate or colleague without permission and
acknowledgment, including sending

grades will be

posted on Blackboard, you will

and scores will be your grade.

University-sponsored event, you must notify the proctor to the exam
from Universityathletics.com

with a confirmation letter

Grading Scale:

Grades will be calculated

on a 100-point scale

the appropriate

the appropriate

the appropriate

All students including those with disabilities are welcome in this course and we are committed to providing

inform us during the first week of class so that we can accommodate your specific needs. If you have not

Metacarpus

metacarpal bones I-V

Metacarpus

metacarpals II, III, IV
sagittal ridge
condyle

Digits – forelimb and hindlimb

proximal phalanges (P1)
middle phalanges (P2)

Digits – forelimb and hindlimb

proximal phalanx (P1)
middle phalanx (P2)

ungula crest

medial/lateral palmar/plantar process

ungula process
proximal sesamoid bones (palmar)
dorsal sesamoid bones (dorsal)

extensor process
solar foramina
solar margin
proximal sesamoids
navicular bone (distal sesamoid)

PELVIS

Ilium
body wing
acetabulum

Stifle

patella and patellar ligament

Stifle

patella

infrapatellar fat pad (lateral only)

fabella

femoral condyles

Tibia

tibial tuberosity

intercondylar eminence (medial and lateral)

Tibia

tibial tuberosity

intercondylar eminence

intercondylar tubercles)

medial malleolus lateral

medial malleolus (cranio-caudal view only)

malleolus

lateral malleolus (cranio-caudal view only)

head

head

TARSUS

Tarsal Joints talocrural

(tarsocrural) proximal

TARSUS

Tarsal Joints talocrural

(tarsocrural) proximal

intertarsal
tarsometatarsal

intertarsal
tarsometatarsal

Tarsal Bones

calcaneus

talus

sustentaculum tali

central tarsal tuber

calcanei

tarsal bones I, II, III, IV

Tarsal Bones

calcaneus

talus

sustentaculum tali

central tarsal tuber

calcanei

tarsal bones I, II, III, IV