

Cover Sheet: Request 11443

VEM 3XXXC - Equine Lameness and Imaging Elective Course and Laboratory

Info

Process	Course New Ugrad/Pro
Status	Pending at VM - College of Veterinary Medicine
Submitter	Sharon Carter swcarter@ufl.edu
Created	2/2/2017 1:41:23 PM
Updated	3/21/2017 3:48:03 PM
Description of request	Equine Lameness and Imaging Elective Course and Laboratory

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	VM - Small Animal Clinical Sciences 312809000	Rowan Milner		2/2/2017
Equine Lameness and Imaging Syllabus Feb 02 2017.doc					2/2/2017
College	Approved	VM - College of Veterinary Medicine	Thomas Vickroy		2/3/2017
No document changes					
University Curriculum Committee	Commented	PV - University Curriculum Committee (UCC)	Brandon Case	Added to the March agenda.	2/27/2017
No document changes					

Step	Status	Group	User	Comment	Updated
University Curriculum Committee	Recycled	PV - University Curriculum Committee (UCC)	Andrew Figueroa	<ul style="list-style-type: none"> -This course is offered prior to VEM5264 Lg Animal Radiology and VEM5422 Equine Surgery -Will this be a required course in the program? -If so will a curriculum/program change request be forthcoming? -2 credit hour lab, is this course to be taken in conjunction with another course? -“Attendance: Attendance is expected.” -Is this the same as required? If so is there a point system/grade for attendance? -“Remediation: The necessity and path for remediation will be determined on an individual basis.”? -Are credit hours appropriate for contact hours 2/28 -Missing course outline/schedule -“We do not keep regular office hours”, violates UF policy. Office hours must be available to students. -Course description in syllabus needs to reflect same as in forms, extraneous information should be moved elsewhere in the syllabus. -Committee Member Question: Regarding the scrubs statement; Does ‘neat’ mean ‘clean’? Perhaps this should be clarified to students. 	3/21/2017
No document changes					
College	Pending	VM - College of Veterinary Medicine			3/21/2017
No document changes					
University Curriculum Committee					
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					

Step	Status	Group	User	Comment	Updated
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 11443

Info

Request: VEM 3XXXC - Equine Lameness and Imaging Elective Course and Laboratory
Description of request: Equine Lameness and Imaging Elective Course and Laboratory
Submitter: Sharon Carter swcarter@ufl.edu
Created: 4/27/2018 4:05:43 PM
Form version: 2

Responses

Recommended Prefix VEM
Course Level 3
Number XXX
Category of Instruction Advanced
Lab Code L
Course Title Equine Lameness and Imaging Elective Course and Laboratory
Transcript Title EQ LAMENESS IMAGING
Degree Type Professional

Delivery Method(s) On-Campus
Co-Listing No

Effective Term Spring
Effective Year 2018
Rotating Topic? No
Repeatable Credit? No

Amount of Credit 2

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 28

Course Description This course is focused on equine musculoskeletal anatomy and pathophysiology as it pertains to lameness in the equine athlete. The course content will include a thorough review of equine musculoskeletal anatomy, diagnostic analgesic procedures and the basics of musculoskeletal imaging in horses, with a focus on musculoskeletal ultrasonography.

Prerequisites Only students with the major code VM & Large Animal Anatomy VEM5112

Co-requisites None

Rationale and Placement in Curriculum This course is intended to provide a thorough understanding of equine musculoskeletal anatomy as it pertains to lameness, and to provide a practical, hands-on approach to helping students learn equine musculoskeletal ultrasonography and diagnostic analgesia pertinent to the lame horse.

This course is offered prior to VEM5264 Lg Animal Radiology and VEM5422 Equine Surgery

Course Objectives 1. Review equine musculoskeletal anatomy and perform limited dissection as it pertains to lameness.

2. To become proficient in routine equine musculoskeletal ultrasonography; including quality control, recognizing normal anatomy and common pathology, forming differential diagnosis(es), and recommendations for further case workup.

3. To understand the indications for, benefits and risks of advanced musculoskeletal imaging including MRI, CT and Nuclear scintigraphy so as to know when to refer for evaluation using these advanced imaging modalities.

4. To develop a strong understanding of commonly performed diagnostic perineural and intrathecal analgesia pertinent to the lame horse, including a thorough knowledge of structures blocked, limitations of each block, and landmarks and techniques for performing clinically relevant blocks.

Course Textbook(s) and/or Other Assigned Reading Recommended/ Reference Texts:

1. Denoix, J.M. The Equine Distal Limb. Manson Publishing; UK, 2000.
2. Butler, J.A. et al. Clinical Radiology of the Horse 3rd ed. Wiley-Blackwell, 2008.
3. Auer JA and Stick JA. Equine Surgery 4th ed. Elsevier, 2012
4. Budras, K.D. et al. Anatomy of the Horse 6th ed. Schluetersche, 2009
5. Clayton, H.M. et al. Clinical Anatomy of the Horse. Elsevier, 2005.
6. Schebitz H and Wilkens H. Radiographic Anatomy of the Horse, 3rd Ed. WB Saunders Co., 1978.
7. Kidd J, et al. Atlas of Equine Ultrasonography. Wiley-Blackwell, 2014.

Weekly Schedule of Topics Students will be divided into groups and each group assigned an anatomic region of the horse. Groups will be given time for dissection and research, then each group will give a presentation to the class on outline objective pertaining to their assigned anatomic region. Subsequently didactic teaching rounds will be given pertinent to the presented material and hands-on cadaveric and live animal laboratories will be provided.

This course is intended to provide information supplementary to VEM5264 Lg Animal Radiology and VEM5422 Equine Surgery elective courses.

Links and Policies <http://www.vetmed.ufl.edu/education/documents/studentHandbook.pdf>

Remediation: The necessity and path for remediation will be determined on an individual basis.

Attendance: Attendance is expected.

For laboratory sessions, the class is divided into groups, and you are expected to attend during your assigned session. If you desire to change sessions, you must switch with a student in the session you wish to attend.

Academic Honesty

Academic honesty, as outlined in the Student Honor Code is expected (<http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>). Violations of the honor code include plagiarism, unauthorized use of materials or resources, prohibited collaboration or consultation, false or misleading statements relating to an honor code violation, false or misleading statements for the purpose of procuring academic advantage, use of fabricated information, unauthorized taking or receipt of materials to gain academic advantage, bribery, purchase of academic work from an outside source, or conspiracy to commit academic dishonesty.

Professional Behavior

The course is typically small and informal. Questions may be asked at any time via usual avenues (i.e. raising of hands, etc.), and discussions are encouraged.

Student Evaluation of Instruction

Prior to the final examination, you will be asked to visit a website where you can complete an anonymous online evaluation of the class and its instructors. We encourage you to do this, as this is the only feedback we get with regard to improvements on the course. We ask that you provide constructive criticism in a professional manner.

The evaluation can be completed at: <https://evaluations.ufl.edu/evals/>.

Accommodations for Students with Disabilities

If any student requires accommodation with regard to examinations, quizzes, or any other academic issue, please approach the Course Coordinator at the beginning of the course. An appointment may be set up via email to discuss in private in order that confidentiality be maintained.

Student Safety

All students are required to wear appropriate footwear and practice safe horse handling techniques.

Grading Scheme Grade Calculation:

- 50% Cumulative final exam (written- 30% and practical-20%)
- 20% Presentation of assigned anatomical region (graded as group)
- 20% Prepared notes on information relative to assigned anatomical region (graded as a group)
- 10% Class participation and technical skill development in labs

Grade Scale:

A 94-100 C+ 77-79

A-	90-93	C	74-76
B+	87-89	C-	70-73
B	84-86	D+	67-69
B-	80-83	D	60-66

F – Less than 60 (will require the student to repeat the rotation after coming before the Academic Advancement Committee)

Instructor(s) Erin Porter, DVM, DACVR,
Alison Morton, DVM, MSpVM, DACVS-LA, DACVSMR, Taralyn McCarrel, DVM, DACVS-LA

Equine Lameness and Imaging Elective Course and Laboratory Syllabus
University of Florida College of Veterinary Medicine

I. Course information

Number:

Course Title: Equine Lameness and Imaging Elective Course and Laboratory

Phase: III

Semester: Spring

II. General information

Course director:

Erin Porter, DVM, DACVR

Office location & office hours: VC 76, 8am-5pm

Email: gordone@ufl.edu

Course Faculty:

Erin Porter, DVM, DACVR, Alison Morton, DVM,MSpVM, DACVS-LA,DACVSMR, Taralyn McCarrel, DVM, DACVS-LA

III. Course description

- Use of live animals and cadavers in this course is approved by the Institutional Animal Care and Use Committee
- Course prerequisite: Large animal anatomy
- This course is worth 2 credits.
- This course can accommodate 14-28 students. The capacity is set to maximize the laboratory learning experience and interaction with instructors.
- We do not keep regular office hours; however, we can usually be reached in the clinical radiology department at the teaching hospital or via email. We will try to answer emails ASAP.
- The majority of the material used will be available digitally on Canvas (<https://lss.at.ufl.edu/>), and the written portion of the examination will be delivered using this e-Learning site.

Course goals/Educational goals of the course:

This course is intended to provide a thorough understanding of equine musculoskeletal anatomy as it pertains to lameness, and to provide a practical, hands-on approach to helping students learn equine musculoskeletal ultrasonography and diagnostic analgesia pertinent to the lame horse.

Course objectives:

1. Review equine musculoskeletal anatomy and perform limited dissection as it pertains to lameness.

2. To become proficient in routine equine musculoskeletal ultrasonography; including quality control, recognizing normal anatomy and common pathology, forming differential diagnosis(es), and recommendations for further case workup.
3. To understand the indications for, benefits and risks of advanced musculoskeletal imaging including MRI, CT and Nuclear scintigraphy so as to know when to refer for evaluation using these advanced imaging modalities.
4. To develop a strong understanding of commonly performed diagnostic perineural and intrathecal analgesia pertinent to the lame horse, including a thorough knowledge of structures blocked, limitations of each block, and landmarks and techniques for performing clinically relevant blocks

Course Outline & schedule:

Prior to the course, check your log in for eLearning (<http://lss.at.ufl.edu>) click on the Canvas button. You will then need to log in using your Gator Link ID information and password. Students will be split into groups and each group will be assigned an anatomical region of the horse. The groups and assigned regions will be listed on the Canvas course site prior to the start of the rotation. On the first day of class, you will have an orientation with the instructors, and immediately begin extensive group study and possible dissection of your assigned region. Come prepared with anatomical resources.

Student Responsibilities

Each student is expected to wear neat scrubs during class, along with appropriate footwear (closed toe shoes). In addition, we ask that you do not take personal calls or texts unless an emergency, particularly if you are holding an animal. Please place all cell phones on vibrate mode only.

Students will be split into small working groups and assigned an anatomical region(s) of the horse. Regions will include the following:

- Phalanges
- Fetlock and metacarpus/metatarsus
- Carpus and antebrachium
- Elbow and shoulder
- Stifle and femur
- Tarsus and crus
- Poll, neck, back, and pelvis: to be discussed, limited dissections if possible

The first 2 days of the course, students will be expected to work in their groups, and perform the following:

- I. Dissect, and label their assigned anatomic region on cadaver horses and be able to identify anatomic structures defined in the objectives
- II. Be familiar with normal radiographic and sonographic appearance of the assigned region and know the limitations of these modalities for the assigned region.
- III. Be able to identify landmarks and perform clinically relevant diagnostic peri-neural and intra-theal analgesia in the assigned region defined in objectives
- IV. Prepare a power point presentation to present this material to the class (about 1 hour)

Instructors will be available to contact during this time; however, this is intended to be group study time, not didactic teaching time. On the following days of the course, 1 group/day will give their

presentation and distribute their power point notes to the class. All students will be responsible for the objectives on all anatomical regions.

After the presentations, instructors will provide image-based didactic lectures and case presentations including image interpretation and lameness evaluation lectures. Subsequently, students will participate in group-based laboratories, learning to perform and practice passive lameness examination (musculoskeletal palpation), ultrasound examination, and diagnostic analgesia on cadavers and, when possible, live horses on the anatomic regions presented.

Students will be responsible for clinical skills including (but not limited to): thorough anatomical knowledge; ultrasound image acquisition, optimization and interpretation; radiographic and other relevant diagnostic imaging interpretation; performing diagnostic analgesia and knowledge of regions anesthetized and limitations of each block.

- i) This course is primarily Laboratory and discussion based. Discussion and lectures will be held in the large animal auditorium. Student interaction is imperative! Dissections will be performed during independent study time in the research laboratory by the anatomy lab.
- ii) Emphasis will be placed on knowing anatomy and understanding the pathophysiology of potential diseases in the region presented. Objective lists of anatomic structures to identify and diagnostic analgesia procedures to know will be provided in objectives on the Canvas site.
- iii) Live horse/cadaver laboratories: **Safety is our top priority, please wear appropriate footwear and practice safe animal handling techniques.** All students are expected to participate in performing diagnostic analgesia, ultrasound image acquisition and handling animals when necessary. Live horse laboratories will be held in the large animal hospital. Cadaver labs will be held in the research laboratory near the anatomy lab.
- iv) Sedation protocol: Instructors or technicians will provide sedation for laboratory animals. Students may administer sedation with supervision, and are expected to monitor patients while under sedation. If the patient is seen to be having an adverse reaction, inform an instructor or technician **immediately** (and administered the reversal agent when appropriate).

*NOTE: Please keep the **Teaching and Laboratory Area** clean at all times. Please be sure to store your books, bags etc. in your lockers NOT on the floor. KEEP the counters CLEAN and free from trash and clutter.*

IV. Course Materials

Recommended/ Reference Texts

1. Denoix, J.M. The Equine Distal Limb. Manson Publishing; UK, 2000.
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V. Evaluation/ Grading/ Testing:

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Clinical competencies

As indicated in Student Learning Objectives.

Course and Instructor Evaluations

Completion is strongly encouraged. Evaluations are IMPERATIVE for course adjustments as well as faculty evaluation for tenure and promotion considerations.

VI. Administrative Policies: see Student Handbook @

<http://www.vetmed.ufl.edu/education/documents/studentHandbook.pdf>

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VII. Other information:

Have fun!