VMC 974: Equine Dentistry and Podiatry

In Workflow
1. 19VMC Grad Head (lizette_hardie@ncsu.edu)
2. CVM CC Coordinator GR (kenuss@ncsu.edu; kasulli6@ncsu.edu)
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4. CVM Dean GR (kmmeurs@ncsu.edu; jennifer_neel@ncsu.edu)
5. ABGS Coordinator (george_hodge@ncsu.edu; lian_lynch@ncsu.edu; mlnosbis@ncsu.edu)
6. ABGS Meeting (george_hodge@ncsu.edu; lian_lynch@ncsu.edu; mlnosbis@ncsu.edu)
7. ABGS Chair (george_hodge@ncsu.edu; lian_lynch@ncsu.edu; mlnosbis@ncsu.edu)
8. Grad Final Review (george_hodge@ncsu.edu; lian_lynch@ncsu.edu; mlnosbis@ncsu.edu)
9. PeopleSoft (none)

Approval Path
   Elizabeth Hardie (lizette_hardie): Approved for 19VMC Grad Head
2. Tue, 07 Jun 2016 18:00:00 GMT
   Kirk Nuss (kenuss): Approved for CVM CC Coordinator GR
3. Fri, 10 Jun 2016 14:59:00 GMT
   Adam Birkenheuer (ajbirken): Approved for CVM CC Chair GR
4. Fri, 10 Jun 2016 16:48:45 GMT
   Jennifer Neel (jennifer_neel): Approved for CVM Dean GR
   George Hodge (george_hodge): Approved for ABGS Coordinator
   Melissa Nosbisch (mlnosbis): Approved for ABGS Meeting

New Course Proposal
Date Submitted: Wed, 27 Apr 2016 19:53:17 GMT

Viewing: VMC 974 : Equine Dentistry and Podiatry
Changes proposed by: cafogle

Change Type
Major

Course Prefix
VMC (Veterinary Medicine - CASS)

Course Number
974

Cross-listed Course
No

Title
Equine Dentistry and Podiatry

Abbreviated Title
Equine Dentistry and Podiatry

College
College of Veterinary Medicine

Academic Org Code
Teaching - DoCS Department (19VMC)

CIP Discipline Specialty Number
51.2401

CIP Discipline Specialty Title
Veterinary Medicine.

Term Offering
Fall and Spring

Year Offering
Offered Every Year

Effective Date
Fall 2016

Previously taught as Special Topics?
No

Course Delivery
Face-to-Face (On Campus)

Grading Method
Honors/Pass/Marginal/Fail

Credit Hours
2

Course Length
2

weeks

Contact Hours
(Per Week)

Component Type | Contact Hours
--- | ---
Clinical/Clinical Rotation | 40

Course Is Repeatable for Credit
No

Instructor Name
Callie Fogle and Timo Prange

Instructor Title
Clinical Associate Professor and Clinical Assistant Professor, respectively

Grad Faculty Status
Assoc
Anticipated On-Campus Enrollment

Open when course_delivery = campus OR course_delivery = blended OR course_delivery = flip

<table>
<thead>
<tr>
<th>Enrollment Component</th>
<th>Per Semester</th>
<th>Per Section</th>
<th>Multiple Sections?</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical/Clinical Rotation</td>
<td>12</td>
<td>12</td>
<td>Yes</td>
<td>We anticipate offering this rotation twice per year, with 12 students enrolled each rotation.</td>
</tr>
</tbody>
</table>

Course Prerequisites, Corequisites, and Restrictive Statement

Students must have basic equine handling experience and/or have taken the Equine Behavior Selective. Equine, mixed animal, food animal, and exotics focus students will be given preference.

Is the course required or an elective for a Curriculum?

No

Catalog Description

This course will provide practical instruction in commonly used skills and techniques necessary for equine dentistry and equine podiatry. It is an intensive, team taught series of didactic lectures, individual laboratories, and clinical case experiences with practitioners that provide students with a high level of experience in equine dentistry and equine podiatry. This course is designed for students in the fourth year of the DVM curriculum, with good horse handling skills and a desire to practice equine veterinary medicine upon graduation. This course is strongly recommended for students with an equine focus or mixed animal focus with an equine concentration.

Justification for new course:

Students who intend to practice equine veterinary medicine, or exotic hoofstock, will be expected to have a basic level of competency in equine dentistry and basic trimming and other podiatry skills needed to identify hoof abnormalities and locate hoof abscesses. Other than externship experience, this course will be the only exposure to learning the critically important skills of equine dentistry and equine podiatry within the veterinary curriculum.

Does this course have a fee?

No

Consultation

College(s)  Contact Name  Statement Summary
College of Veterinary Medicine  none  Based on unique DVM course topic, outside consult does not appear necessary.

Instructional Resources Statement

This will be a team taught course, with Drs. Callie Fogle, Timo Prange, Mary Katherine Sheats, and Mathew Gerard rotating as facilitators during the dentistry week. Additionally, Dr. Bryan Taylor, an adjunct professor, will participate bi-annually in the dentistry week to provide the students with important diversity in equine dental experience, as a private practice equine dental expert. For the podiatry week (week 2), Dr. Mansmann, an adjunct professor, will provide podiatry instruction, and will facilitate student experiences with local farriers during the week.

Course Objectives/Goals

1. To learn the fundamental principles of equine dentistry.
2. To become familiar and comfortable handling horses and obtaining their vital signs.
3. To become familiar with common sedatives/analgesics used for horses and become comfortable with intravenous administration of these drugs.
4. To become familiar with placing an oral speculum on a horse and performing a manual exam of the oral cavity.
5. To become familiar with performing dentistry on horses with hand floats.
6. To introduce the use of power instruments for dentistry on horses.
7. To learn safe handling for equine hoof examination, hoof radiography and hoof trimming.
8. To become familiar with common hoof abnormalities, and understand how those abnormalities can affect soundness
9. To become comfortable performing a basic trim of all four feet of a horse.
10. To become comfortable removing shoes on all four feet of a horse.
11. To understand the principles of treating subsolar abscesses and laminitis.

**Student Learning Outcomes**

By the end of the course, students will be able to:

- Identify relevant equine dental anatomy
- Demonstrate the ability to safely perform a complete equine oral examination
- To become familiar with common instrumentation used in equine dentistry
- Demonstrate the ability to safely perform an equine dental flotation using hand floats
- Apply concepts of horse handling and physical examination techniques
- Identify common sedatives/analgesics used for horses and demonstrate the ability to perform intravenous administration of these drugs.
- Explain the technique for safely performing an equine dental flotation using power floats
- Demonstrate the ability to safely perform an equine hoof examination
- Identify common hoof abnormalities, and describe how those abnormalities can affect soundness
- Describe the concepts of a basic trim of all four feet of a horse.
- Demonstrate the ability to remove shoes on a horse.
- Describe the principles of diagnosing and treating subsolar abscesses and laminitis.
- Identify common farrier tools, farriery tools needed by equine practitioners, and commonly used therapeutic horse shoes.
- Demonstrate the ability to safely acquire and evaluate hoof radiographs

**Student Evaluation Methods**

<table>
<thead>
<tr>
<th>Evaluation Method</th>
<th>Weighting/Points for Each</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>50%</td>
<td>A satisfactory grade will be given for students that attend daily, are punctual and responsible, and are active learners.</td>
</tr>
<tr>
<td>Participation</td>
<td>50%</td>
<td>Active Participation that allows student to demonstrate skills &amp; techniques necessary for equine dentistry and podiatry</td>
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**Topical Outline/Course Schedule**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time Devoted to Each Topic</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to equine dentistry and expectations</td>
<td>1 hr</td>
<td>Lecture: Introduction to equine dentistry and course expectations</td>
</tr>
<tr>
<td>Dental anatomy</td>
<td>1 hr</td>
<td>Lecture: Dental anatomy, physiology, aging, and tooth identification</td>
</tr>
</tbody>
</table>
Equine dental instrumentation 1 hr Lecture: Instrumentation and basic dentistry
Equine oral examination 1 hr Lecture: Equine oral examination and dental charting
Laboratory 3 hr Cadaver laboratory for practice of dental flotation skills
Equine dental pathology 1 hr Lecture: Equine dental pathology
Corrective dentistry 2 hr Lecture: common corrective procedures and therapies used in equine dentistry
Laboratory 3.5 hr Cadaver laboratory for practice of equine dental flotation skills
Live horse dentistry experience 24 hr Laboratory (3 days) Supervised dental flotation skills practice, providing necessary annual dental examinations and flotations to university owned horses
Introduction to equine podiatry 1 hr Lecture: Introduction to equine podiatry and foot related examination
Podiatry instrumentation 1 hr Lecture: Instrumentation and basic farriery
Equine hoof pathology 2 hr Lecture: Equine hoof pathology and podiatry radiographs
Laboratory 3 hr Cadaver laboratory for hoof trimming skills practice
Laboratory 5.5 hr Supervised practice of client communication, hoof radiography, and podiatry skills
Laboratory 24 hr Laboratory (3 days) Supervised podiatry and client communication skills practice with selected local farriers

Syllabus
VMC 974 Syllabus long.docx

Additional Documentation

Additional Comments
Likely to be Block 3 and 13.

minosbis 6/27/2016: No consultation needed. Why is course length 2 weeks?

ghodge 6/29/2016 Two week course length is acceptable as one of the practical rotations. Ready for ABGS review.

ABGS Reviewer Comments:
-None

Course Reviewer Comments
Key: 10127