

ANEQ 346 Equine Disease Management

Course number and title: ANEQ 346 Equine disease management

Pre-requisite: ANEQ 230 OR BMS-300

Course description: Equine disease management is a class that studies normal and abnormal body structures and functions of the major systems of the horse. Anatomical structures are related to health and disease. Recognition of main diseases and its causes, prevention and treatments are emphasized.

Course objectives: Upon successful completion of this course students will understand normal and abnormal functions of the major body systems, recognize anatomical structures related to the different systems, recognize the main diseases in horses and understand principles for the prevention and treatment of those. Students will be able to relate the normal and abnormal anatomy of the main body systems to problems that occur.

Lectures: Monday, Wednesday and Friday, 1:00 to 1:50, ANAZO W 205.

Laboratory section: Wednesday or Friday, at Adams Barn, Legends of Ranching Sale Barn, later in the semester in the Physiology lab in Animal Sciences 10:00 to 11:40.

Open labs: will be offered by Teaching assistants and times arranged

Coordinator: Dr. Tanja Hess, Tanja.hess@colostate.edu

Office hours: by appointment, please.

Teaching Assistants: We and Fri lab; Hugo Felipe da Costa Santos (hugofelipe.cs@gmail.com)labs; Clarissa Carver (Clarissa@TheCarverZone.com); Bailey Thers (bmteventing@gmail.com), open labs and class questions.

Required Text:

- 1) Horse anatomy, a coloring atlas. By Robert Kainer and Thomas O. McCracken, 2nd edition, 1998, Alpine Publication, Loveland, CO

Recommended reading and suggested clothing for dissection days:

- 1) The Merck Veterinary Manual. By Cynthia M. Kahn, Merck & Co., Inc., Whitehouse Station, NJ, USA. 9th edition.
http://www.merckvetmanual.com/mvm/index.jsp?cfile=htm/present/mvm_about.htm
- 2) Lab coats, scrubs or overalls for dissection days.

Required material:

Dissection material: One pair of scissors, one scalpel blade holder and blades (nr 20), one pair of toothed tweezers. **Lab dress code:** Students should wear closed shoes and long pants for all labs.

Policies:

- If absent from class, students are responsible for obtaining any information (e.g. notes, handouts, changes in test dates, in class assignments).
- Students have one week following the return of exams and other graded items to resolve grading issues. Following that time, grades will be final.
- Cheating (using someone's else's work and representing it as your own or any assignment, quiz, or exam) will result in removal from the course and assignment of an F for the final course grade.
- Exams and in class quizzes should be taken on announced dates. Make-up exams will only be given for legitimate reasons approved by the instructor. Students must notify the professor before the scheduled exam time. In case of absence due to emergency, students MUST call the professor and come to arrange for make-up work immediately after the absence (within two business days of the absence: Monday = by class time on Wednesday; Friday = by 1:00 pm on Tuesday).
- Lab homework assignments are due in the beginning of the following lab
- Homework assignments must be handed in or e-mailed on the scheduled dates. Late assignments will have points subtracted from the total value

Student Evaluation:

Quizzes	40 points (4-5 quizzes, top 4 count)
Assignments	70 points (1-2 group in class assignments worth 20 points total); 50 points for conformation group assignment
Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Mid-term lab exam	70 points
Final	100 points (top 3 grades from exams count)
Final lab exam	90 points
Lab participation; hw problems	50 points (5 points for participation in each lab, except review labs)
Total	620 points

Extra points are given to extra assignments in addition to points above and do NOT count towards 620 points.

Grading scale:

- A 89.5-100%
- B 79.5-89.4%
- C 69.5-79.4%
- D 59.5-69.4%
- F less than 59.4 %

Tentative Schedule Equine Disease Management

Date	Day	Lecture	Lecturer
Week 1; 08/21	M	Introduction	Dr Hess
8/23	W	Clinical parameters, body condition	Dr Hess; Teaching assistants
8/23; 8/25	W/F lab	Directional terms, clinical parameters overview (Adams arena)	Dr Hess; Teaching assistants
8/25	F	Understanding some disease processes	Dr Hess
8/25-8/27		Volunteering opportunity at endurance race (extra points given)	http://beavermeadowsstables.com/?p=294
8/28	M	Oral cavity and dentistry	Dr. Bass
8/30/9/01	W/F lab	Wednesday/Friday: Teeth and skull; dental exam demonstrations. (Legend's barn)	Dr. Bass, Hess
9/01	F	Disease processes/Upper digestive tract; quiz 1	Dr. Hess
Week 3; 9/04	M	Labor day	No class
9/06	W	Upper digestive tract	Dr. Hess
9/06; 9/08	W/ F lab	Friday: Digestive system anatomy and problem sites/ colic video (Adams classroom)	Dr. Hess; Teaching assistants
09/08	F	Small intestine, quiz2	Dr. Hess
Week 4; 9/11	M	Small intestine	Dr Hess
9/13	W	Small intestine/hindgut	Dr Hess
9/13; 9/15	W/F lab	Gastrointestinal view in a necropsy ARBL necropsy room	Dr Hess; Teaching assistants
9/15	F	Colic	Dr Hess
Week 5; 9/18	M	Equine Parasites	Dr. Hess
9/20	W	Equine Parasites	Dr. Hess
9/20; 9/22	W/F lab	Equine fecal egg count	Hess, TAs
9/22	F	Exam 1	Dr Hess
Week 6; 9/25	M	Equine conformation	Dr Hess
09/27	W	Lameness exam	Dr Black
09/27/ 9/29	W/F lab	Lameness exam and conformation (Adams arena, bleachers)	Dr Black/Hess; Teaching Assistants
09/29	F	Osteoarthritis	Dr. Black
Week 7; 10/02	M	Bone Development and diseases	Dr Hess
10/04	W	Musculoskeletal: bone development	Dr Hess
10/04; 10/06	W/F Lab	Thoracic limb bones and joints; Pelvic limb bones; main joints (Legends barn)	Dr Hess Teaching Assistants
10/06	F	Practical aspects on hoof care and balance	Mr. Brooks
Week 8; 10/09	M	Foot problems, Quiz 3	Dr Hess
10/11	W	Laminitis	Dr Hess
10/11; 10/13	W/F lab	Lab exam 1	Dr Hess; TAs
10/13	F	Laminitis	Dr Hess

Week 9; 10/16	M	Equine Eye	Dr Powell
10/18	W	review	Hess
10/18; 10/20	W/F Lab	Equine eye exam Adam's arena count	Ophthalmology resident; Teaching assistants
10/20	F	Exam 2	
Week 10; 10/23	M	Neurologic problems	Dr Nout-Lomas
10/25	W	Neurologic problems	Dr Nout-Lomas
10/25/10/27	W/F lab	Conformation presentations ADAMS CLASSROOM	Dr Hess/TA
10/27	F	Infectious disease control; in class assignment	Dr. Hess
Week 11; 10/30	M	Infectious diseases and control	Dr. Hess
11/01	W	Infectious diseases and vaccinations	Dr. Hess
11/01; 11/03	W/F lab	Thoracic limb dissection: tendons, muscles, main arteries (Animal Science physiol lab)	Dr. Hess Teaching Assistants
11/03	F	Respiratory problems	Dr. Swain
Week 12; 11/6	M	Respiratory problems	Dr. Swain
11/08	W	Skin diseases, quiz 4	Dr. Hess
11/07	Tues	Trip to Harmony Equine	Leave at 8 and return around 2 pm by bus, extra point assignment associated
11/08; 11/10	W/F lab	Thoracic limb dissection: tendons, muscles, main arteries (Animal Science physiol lab)	Dr. Hess TA
11/10	F	Respiratory problems	Dr. Swain
Week 13; 11/13	M	Management of the stallion	Kristin Klohonatz
11/15	W	Management of the broodmare	Kristin Klohonatz
11/15, 11/17	W, F	Pelvic limb dissection: tendons, muscles, main arteries (Animal Science physiol lab)	Dr. Hess
11/17	F	Exam 3	Hess
11/20	Fall break		
Week 14; 11/27	M	First Aid equine emergencies	Dr. Bass
11/29	W	First Aid equine emergencies	Dr. Bass
11/29; 12/1	W/F lab	Review section for lab (Animal Science physiol lab)	Hess; Teaching Assistants
12/01	F	Neonatology; Quiz 5	Dr. Hess
Week 12/04	M	Equine Skin problems	Dr. Hess
12/06	W	Wound care	Dr. Hess
12/06; 12/08	W/F lab	Final in lab (Animal Science physiol lab)	Dr Hess; Teaching Assistants
12/08	F	Euthanasia/ honors presentations	Dr. Hess
FINAL EXAM			
12/15	F 7:30 TO 9:30 AM	FINAL	Hess

Open labs will be offered and conducted by TAs on Mondays (10am-12) UNTIL FIRST LAB TEST, and Fridays from 3-5 pm in the physiology lab thereafter; other possible times as needed and upon previous attendance confirmation. Open labs will occur with student confirmation to TAs.

COLORADO STATE UNIVERSITY ACADEMIC INTEGRITY POLICY:

The CSU policy on academic integrity, found in the Student Rights and Responsibilities section of the University General Catalog (<http://www.catalog.colostate.edu>), applies to this course. All incidents of academic dishonesty (e.g., cheating, plagiarism, unauthorized possession or distribution of academic materials, falsification, facilitation of cases of academic dishonesty, etc.) may result in a failing grade on the relevant assignment, exam and/or for the course. Furthermore, all incidents of academic dishonesty will be reported to the Office of Conflict Resolution and Student Conduct Services. Students sign assignments and tests to declare that the work was completed independently and without unauthorized aid. This represents student commitment to honorable and trustworthy behavior, in the spirit of the Honor Pledge. The course instructor will list items such as class and study group notes, review assignments, formula sheets, and (or) tests from previous courses, that can be shared without violating academic integrity.