

ANSC 360-ANIMAL HEALTH and DISEASE SYLLABUS – SPRING 2011

Instructor: Terrance Wilson DVM, PhD, ACVP **Email:**tmwilson@csuchico.edu

Class Schedule: Thursday 4:00-7:00

Lecture: Holt Hall 352

Office Hours: M, T & W by appointment

Office: Plumas 208

Required text: MERCK VETERINARY MANUAL- **FREE ON LINE VERSION**

@ <http://www.merckvetmanual.com/mvm/index.jsp>

Required Text: Emerging and Exotic Diseases of Animals
Textbook

Fourth Edition, 2009

Edited by:

Anna Rovid Spickler, DVM, PhD

James A. Roth, DVM, PhD, DACVM

Jane Galyon, MS

Jeanne Lofstedt, DVM, MS



The 4th Edition of this successful book has been updated and expanded for 2010. It now includes information on disease response and disease management for both the U.S. and Canada. Chapter 1 is completely new and takes a global approach to the veterinarian's role in disease management. Chapters 2-5 have been revised, and the 75 animal disease fact sheets have been updated. The book contains 260 annotated images for 59 diseases. This edition of the book also contains disease reference charts that serve as a quick resource.

Coil Bound

383 pages

ISBN#978-0-9745525-8-3

Course Description: A study of disease processes in livestock. Principles of disease organisms and the patho-physiology of infection will be presented. Mechanisms and pathogenesis in which disease agents attack the animal and how the body combats infections, i.e., immune responses will be discussed. Herd health principles for disease prevention, treatment, vaccination will be discussed as applicable, appropriate and doable.

Learning Objectives:

- 1- To be able to professionally write and speak with confidence and competency about endemic and Trans boundary animal diseases (TBD)
- 2- Gain a basic understanding of the pathogenesis / patho physiology of animal diseases.
- 3- To appreciate the significance of zoonotic diseases
- 4- To fully recognize the role of wildlife diseases in One Medicine
- 5- To recognize the value of Homeland / National Security and the protection/ security of our food supply from the farm to the fork, stable to the table. (Agroterrorism)



Course Content: An introduction to the major viral, bacterial, nutritional and parasitic causes of farm animal diseases will be presented. The course will be taught according to the etiological agents of disease. We will cover a wide range of endemic and foreign animal (FAD) diseases in cattle, swine, and horses, poultry, small ruminants, and fish, wildlife and zoo animals. Zoonotic diseases will be thoroughly discussed. The endemic animal diseases will be presented along with diseases listed as differential diagnoses / rule out diseases.

Many of these infectious and parasitic diseases have the potential of transgressing international boundaries (Tran boundary diseases: TBD) and consequently affecting international trade in animals and their products with grave socioeconomic consequences for the countries involved. These diseases, in many instances, do affect humans (zoonotic diseases) and often pose as the major constraint to the socioeconomic development of agriculture communities in developing countries agriculture.

An Electronic glossary of relevant terms will be available. You may well want to electronically seek out your own free, user friendly veterinary glossary of medical terms, many are available. A medical glossary of terms or dictionary will do quite well. A brief over view of the complex interaction between the etiological agent, the host and the environment (pathophysiology, pathogenesis) will be offered. Video presentation of key animal and zoonotic diseases will be offered weekly. Some of the images and videos maybe shocking, yes, shocking, to some and, therefore, viewer discretion is advised. Some students, because of the nature of the visuals, may rethink taking the course.



Recommended / suggested reading will directly follow each disease entity. Some reading will be mandatory and will be so indicated. This course will sharply introduce you into the exciting field of animal health, veterinary / One Medicine and offer ideas / experiences in critical thinking, scientific speaking and writing. Your animal disease detective / observational skills will surely be enhanced.

GRADING

MIDTERM PAPER: Select a topic relevant to the syllabus. Specific directions will be forthcoming prior to the paper being assigned. Basic guidelines for Midterm paper: DUE MARCH 11, 2011. Paper should be formatted so that it is clearly labeled, professionally presented, using 12 pt font with 1 inch margins. Paper should be 2 pages in length.

FINAL EXAM: Using the same topic as your midterm paper, prepare an oral presentation. You must use some form of visual aids for the presentation such as PPT. You may modify your topic as you wish but the same disease / entity must be maintained. This will be an individual effort and your oral presentation should last no more than 5 minutes. Further instructions about the paper and presentation will be forthcoming.

Course grading:	10 quizzes (10 pts each)	100 pts
	Midterm paper	100 pts
	<u>Final Oral Presentation</u>	<u>100 pts</u>
	Total:	300 pts
Grade Scale:	90% = A; 80% = B; 70% = C; 60% = D	< 60 = F



Ground Rules

Quizzes will be given according to the syllabus. Punctuality is important to insure that each student has the maximum amount of time to complete the quiz. Makeup-quizzes will be at the discretion of the Professor, and under most circumstances will not be granted.

If there is evidence that you have been involved in any form of academic dishonesty, you will receive an “F” grade for the course, and a report will be provided to Student Judicial Affairs for further action.

If a student feels an error in grading has been made, the student has one week from the time of the assignment is returned to them (or the grade is posted on the web, whichever is later) to request a review of the grade. The request must be in writing – attached to the original assignment—and must include a specific statement as to what is in error, how it should be corrected, and what supporting evidence is available.

Expected Student Behavior in the Classroom

- Students are expected to turn off all pagers, cell phones and other electronic devices during class time.
- Students are expected to pay attention and participate in class meetings.
- Students may not read other materials (newspapers, magazines) during class.
- Students are to remain in class during the entire session with the exception of breaks. Students are not allowed to come and go during the class session.
- All class participants are expected to exhibit respectful behavior
- All students have the right and privilege to learn in the class, free from harassment and disruption.
- Inappropriate or disruptive behavior will not be tolerated, nor will lewd or foul language.
- The class follows the standards set in the *Code of Students Rights and Responsibilities (EM 96-38)* and students are subject to disciplinary action for violation of that code.

Specifics:



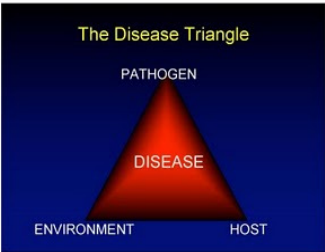








- **In the VISTA section of ANSC 360 there is an ICE BREAKER form. Complete and bring to the first day of class, Jan. 27, 2011. Be prepared to come to class and possibly discuss your ICE BREAKER.**
- There will be no makeup quizzes unless prior arrangements have been made with the Professor two weeks in advance of the scheduled absence.
- Weekly quizzes provide the necessary immediate feedback to assess your performance in the class. If you are not meeting your expectations, then change your strategy. It is the responsibility of the student to find the necessary help. Opportunities for help include active participation in a study group; optional tutoring and attending office hours on a regular basis will enhance class performance.
- Homework assignments are listed on the syllabus are required and will be covered on the weekly quizzes.
- Attendance is absolutely necessary and is required.
- Plan to study more for this class than most of your other classes unless you have an exceptionally strong background in animal health. If you have an assignment, I suggest reading the material **prior** to coming to class.
- See Vista for study tips: there are number of good resources available to help you.







✓ <http://studytips.aac.ohiou.edu/>






COURSE CALENDAR

Week	Lecture
 <p data-bbox="235 1136 341 1186">Jan.27 Dr. R.Koch.</p>	<ul style="list-style-type: none"> • Ice-breaker, • Sign up for the FREE Emerging Infectious Diseases Journal /CDC journal at http://www.cdc.gov/ncidod/EID/index.htm. • You will have required reading in this journal. • REQUIRED READING FOR NEXT WEEK. – in Textbook – ISU, IDAHO
 <p data-bbox="235 1451 349 1507">Feb.3 WNV vector</p>	<ul style="list-style-type: none"> • QUIZ • Lecture: Introduction to disease agent, host animal and the environment. Classification of animal disease causing agents. Discuss pathogenesis, patho-physiology of animal viruses, bacteria, parasites, fungi, toxins etc. • REQUIRED READING FOR NEXT WEEK. IDAHO ISU found in Vista under supplemental reading
 <p data-bbox="235 1822 332 1856">Feb. 10</p>	<ul style="list-style-type: none"> • QUIZ • Lecture: Continued discussion on animal disease agents, pathogenesis and patho-physiology. • Basic hematology, immunology and animal response to infection. • REQUIRED READING FOR NEXT WEEK. IDAHO ISU

<p>Feb.17 vCJD</p>		<ul style="list-style-type: none"> • GUEST LECTURE. Dr. Scott B. USDA,APHIS, VS. Exotic animal disease outbreaks in California. • GUEST LECTURE: Dr. Scott. Biosecurity • GUEST LECTURE: Dr. Scott. PPE • REQUIRED READING FOR NEXT WEEK IDAHO ISU • Assignment: View general FMD video for next week
<p>Feb. 24 FMD virus</p>		<ul style="list-style-type: none"> • QUIZ Mark VSV • Lecture: animal disease pathogenesis / pathophysiology • Lecture: CATTLE DISEASES-FMD • REQUIRED READING FOR NEXT WEEK. ISU IDAHO, • Assignment: Review general FMD video swine
<p>Mar.3 Orf</p>		<ul style="list-style-type: none"> • QUIZ. • Lecture: CATTLE DISEASES • Lecture: Scientific writing. Exercise on carcass disposal for next week. We will decide on the make up of the 10 team units today for next week's sessions on carcass disposal. • REQUIRED READING FOR NEXT WEEK. Disposal web sites and related information on carcass disposal from designated web sites.
<p>Mar. 10 Screw worm</p>		<ul style="list-style-type: none"> • QUIZ. • Lecture: SWINE DISEASES. • Lecture 3- we will break up into our assigned teams of 5. At the start of the 1st lecture on Mar.10, I will select each team leader / presenter who will present a 5 minute PPT type presentation on carcass disposal. You all need to be prepared to be team leader / presenter. • PRACTICE. YOU MIGHT BE SELECTED ! • REQUIRED READING FOR NEXT WEEK. ISU IDAHO
<p>Mar.15 rabies</p>		<div style="display: flex; align-items: center;">  <p>Turn in mid term paper</p> </div>

 <p>Mar. 24 vCJD</p>	<ul style="list-style-type: none"> • QUIZ. • Lecture: SWINE DISEASES • REQUIRED READING FOR THIS WEEK. IDAHO ISU
<p>Mar. 31</p> 	<p>Celebrate Cesar Chavez day. No class.</p>
<p>April 7</p> 	<ul style="list-style-type: none"> • QUIZ • Lecture: POULTRY DISEASES. • Lecture: Agro terrorism • REQUIRED READING FOR NEXT WEEK.
<p>April 14</p> 	<ul style="list-style-type: none"> • QUIZ • Lecture: AGROTERRORISM • REQUIRED READING :IDAHO, ISU, • VIEWING FOR NEXT WEEK. View basic AHS video.
<p>April 21 Soft mattress</p> 	<ul style="list-style-type: none"> • QUIZ • Lecture: HORSE DISEASES • REQUIRED READING FOR NEXT WEEK
<p>April 28 Rabies</p> 	<ul style="list-style-type: none"> • Lecture: ZOONOTIC DISEASES • Required reading: Dr. Olsen- University of Wisconsin, found in Vista under supplemental reading.
<p>May 5</p>	<ul style="list-style-type: none"> • QUIZ • Lecture: WILDLIFE DISEASES • • NO REQUIRED READING FOR NEXT WEEK.

 <p data-bbox="235 399 381 420">Viral papillomas</p>	
<p data-bbox="235 430 300 493">May 12</p> <p data-bbox="235 493 324 546">Ostertagi a sp egg</p> 	<ul data-bbox="673 430 1380 546" style="list-style-type: none"> • DEAD WEEK • Assignment: give final INDIVIDUAL PPTs. Come prepared. It will be a long day!
<p data-bbox="235 745 332 777">May 16</p> 	<p data-bbox="625 588 998 619">FINALS WEEK: NO FINAL</p>

Please Note: This syllabus is a document in progress. I reserve the right to change items, dates and times as needed. I will update the document and place the most current version in the Vista section. Students will be apprised of any changes to the document and instructed to download the most current version should changes occur.
