

Avian Health 512

May 19-30, 2014

8:30-11:30 in room 209 Animal Science Building

Instructor: Mark E. Cook and Rob Porter

Guest Instructors: Keith Honegger

Phone cell: 608-212-5874(Cook) 952-847-3476(Porter)

Email: mcook@wisc.edu porte349@umn.edu;

Objectives: To give students a better appreciation for the origin of diseases, methods to control infections through sanitation and immunological function, and regulatory agencies involved. To give the students a clearer understanding of normal and abnormal pathology, and the causes of infectious diseases.

May 19	1	Occupational health and safety
May 19	2	Introduction, surveillance, regulation
May 19	3	Major historical outbreaks
May 20	4	Zoonosis
May 20	5	Zoonosis
May 20	6	Sanitation
May 21	7	Sanitation
May 21	8	Disease prevention/break management
May 21	9	Disinfectants/disinfestants
May 22	10	Immune defense
May 22	11	Immune defense
May 22	12	Immune defense
May 23	13	Exam
May 23	14	Immune regulation growth
May 23	15	Mycotoxins
May 26	16	Vaccination/vaccines
May 26	17	Vaccination/vaccines
May 26	18	Vaccination/vaccines
May 27	19	Bacteria diseases
May 27	20	Bacteria diseases
May 27	21	Bacteria diseases
May 28	22	Bacterial diseases
May 28	23	Viral diseases
May 28	24	Viral diseases
May 29	25	Viral diseases
May 29	26	Viral diseases
May 29	27	External/internal parasites
May 30	28	Management related diseases
May 30	28	Management related diseases
May 30	28	Quiz bowl

Grading: Each exam is worth 200 points, and attendance at each lab is worth 10 points with no excuses. The report at the final laboratory session will be 100 points, for a total of 400

points. Grading is on a 10 point scale, with a possible curve. Note, exams point from Cook will be in class and Porter will be take home.

LABORATORY

*Please plan to bring a pair of old shoes that can be stored at the poultry lab. They must be covered toe shoes like tennis shoes.

May 19-30, 2014

Objectives : To explore the microbial world of infectious disease. To understand your role in the transmission of disease. To develop a visual understanding of abnormal pathology.

Instructor: Mark E. Cook, Rob Porter

Phone: cell 608-212-5874

Home 608-233-1020

Email: mcook@wisc.edu, porte349@umn.edu

Laboratory 1, May 19, Normal bird Necropsy, sterile sampling, PRL

Laboratory 2, May 20, Sanitation, transmission. PRL

Laboratory 3, May 21 , Enzyme linked immunoabsorbent assay, Elizabeth Room 1056
Animal Sciences

Laboratory 4, May 22, Vaccine/immunology lab PRL

Laboratory 5, May 23, Field trip, cage free

Laboratory 6, May 26 Bacteriology isolation identification PRL

Laboratory 7, May 27 WVDL mortality necropsy, Diagnostic lab

Laboratory 8, May 28. Virus isolation, Electron microscopy, PCR. Diagnostic lab

Laboratory 9, May 29,. Fixed specimen disease identification. State Diagnostic Lab

Laboratory 10, May 30,. Lab summary. Do not plan for an early departure.

Laboratory will meet in the Poultry Research Lab (except where noted) , two buildings west of An. Sci. from 1:30 (unless notified otherwise) until completed. On days of the trips to the diagnostic lab, no one is allowed in the Poultry lab wearing any clothes or unprotected shoes worn at the diagnostic lab. Any results from lab procedures at the poultry lab should be recorded before going to the diagnostic lab.

Grading: 10 points will be given for attendance of each lab. There will be no make-ups and no excuses provided for absences. Total 100 points.

Each student will present a powerpoint presentation of results. These results will include methods and findings in lab 1, 2, 4, 6, and 7. 100 points will be assigned equally for 1. Presentation; 2. Experimental designs used; 3. Evidence or results gathered properly; 4. Interpretation of results. Each student will be given no more than 10 minutes to present their findings in a formal presentation. A 2 minute question period will follow. These scores will be based on peer evaluations according to the attached sheet.