Animal Science 373C: Avian Health Summer 2023

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Lecture (Ensminger Room)*: Monday - Friday: 8:30 am – 12:00 pm Laboratory (Kildee Room 104, etc)*: Monday - Friday: 1:00-5:00 pm *Lecture and lab times subject to change. Please refer to detailed schedule on page 3.

Students are expected to drive themselves to the Hamilton Poultry Teaching Farm. Please carpool if you do not have a car. If you are not here on time, students are responsible for their actions and will not be able to make up for lost time. Transportation is provided on all other field trips/site visits.

Student Outcomes: At the completion of this course, students should be able to:

- 1. Understand and appreciate the origins of disease, methods to control infections through immunological function, vaccination, sanitation, biosecurity, and regulatory agency response.
- 2. Understand normal and abnormal signs caused by disease.
- 3. Better understand the microbial world of infectious disease.
- 4. Understand human's role in transmission of disease.
- 5. Understand normal avian anatomy and appropriately complete an avian necropsy with proper sample collection.
- 6. Develop a visual understanding of gross lesions caused by disease.

Grading: Your final grade for this course is calculated from a total of 400 points. A final grade will be based upon accrual of those points. The instructor reserves the right to grade on a curve.

Exam 1:	100 points
Exam 2:	100 points
Lab Week 1:	100 points
Lab Week 2:	100 points

Week 1 Expectations:

- 1. You will be required to attend lectures in person if possible, virtual options may be used in some instances. Exam 1 questions will be based off of both lecture and lab materials (**100 points**).
- 2. You will receive an assignment on biosecurity/Foreign Animal Disease, which you will work as a group. Group presentations will be due on lab 3. This will be worth **50 points**.
- 3. You will be expected to show up to lab and contribute to discussion. Attendance and discussion will count 10 points per day for a total of **50 points** for the whole week.

Week 2 Expectations:

- 4. You will be required to attend lectures in person if possible, virtual options may be used in some instances. Exam 2 questions will be based off of both lecture and lab materials (**100 points**).
- 5. You will receive an open book, take-home lab report assignment at the beginning of week 2 to be completed by lab time on the last day of the course to submit online on canvas. This will be worth **50 points**.
- 6. You will be expected to show up to lab and contribute to discussion. Attendance and discussion will count 10 points per day for a total of **50 points** for the whole week.

Expectations: Class participation is an important aspect of active learning and is directly beneficial to the student and their peers. The best way to get the most out of this class is participation, asking questions, and networking with your peers and guest speakers. The poultry industry is small and offers many job opportunities. As Poultry Science Departments and classes are disappearing across the country, this class is an excellent way to get your foot in the door to discover an interest you didn't know you had, or also help you find what you do not want to do for a career. When Canvas or any online/ email option is used to submit class work, it is the sole responsibility of the student to ensure documents are submitted on time and in a readable format. Any malfunction is the responsibility of the student and students must clearly communicate that the final form has been submitted when submitting over email.

Cliff notes: Missed in-class evaluation (quizzes and exams) cannot be made up and students will receive a zero. If you have an emergency, you must email the instructor before class begins. Syllabus is subject to change.

1. Biosecurity

There should be absolutely no contact with poultry, swine, or any avian species for a minimum of 72 hours prior to farm visits. Students with pet birds need to make arrangements for the duration of the rotation. Students who fail to follow biosecurity protocols will be requested to be excused from participating in laboratory activities.

2. Cell Phone policy

It is expected of students not to utilize their cell phones during class or lab work, unless during a break period. Cell phone use is extremely distracting not only for the instructor but other classmates as well. COE is taking a strong stance on cell phone usage. If a student is found to be using a cellphone during class, the student will be given a verbal warning by the instructor. If the student is found to be using a cellphone for a second time, the COE administrative team will be informed and action will be taken. If you have a pre-determined call that you need to make or answer, please alert the instructor ahead of time.

3. Academic Dishonesty and the Honor Code

Student conduct follows Iowa State University's policy on academic dishonesty. The instructor/instructor-in-charge observing academic dishonesty reports the student suspected of academic dishonesty to the CVM Office of Academic and Student Affairs Director of Student Programs and/or Associate Dean for Academic and Student Affairs who reports the alleged violation to the Dean of Students Office. The violation also is submitted to the ISU CVM Honor Board. Additional campus- wide policies regarding academic misconduct are found at: http://www.dso.iastate.edu/ja/academic/misconduct.html.

4. Disability Accommodation

Iowa State University is committed to assuring that all educational activities are free from discrimination and harassment based on disability status. All students requesting accommodations are required to meet with staff in Student Disability Resources (SDR) to establish eligibility. A Student Academic Accommodation Request (SAAR) form will be provided to eligible students. The provision of reasonable accommodations in this course will be arranged after timely delivery of the SAAR form to the instructor. Students are encouraged to deliver completed SAAR forms as early in the semester as possible. SDR, a unit in the Dean of Students Office, is located in room 1076, Student Services Building or online at www.dso.iastate.edu/dr/. Contact SDR by e-mail at disabilityresources@iastate.edu or by phone at 515-294-7220 for additional information.

5. Harassment and Discrimination

Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment. For more information, or if you believe you are a victim of discrimination or harassment, please visit the following URL for additional guidance: <u>http://policy.iastate.edu/policy/discrimination/</u>.

6. Religious, Civic, and Military Accommodations

There may be times when an academic requirement conflicts with religious observances and practices, or required civic or military duty. If that happens, students may request reasonable accommodation of their religious practices http://www.eoc.iastate.edu/discrimination/religious <u>Civic http://www.eoc.iastate.edu/sa/juryduty</u> <u>Military http://www.veterans.iastate.edu/active-duty#leave</u>

7. Free Expression

Iowa State University supports and upholds the First Amendment protection of <u>freedom of speech</u> and the principle of <u>academic</u> <u>freedom</u> in order to foster a learning environment where open inquiry and the vigorous debate of a diversity of ideas are encouraged. Students will not be penalized for the content or viewpoints of their speech as long as student expression in a class context is germane to the subject matter of the class and conveyed in an appropriate manner.

8. Health and Safety Requirements

Students are responsible for abiding by the university's <u>COVID-19 health and safety expectations</u>. It is important for students to recognize their responsibility in promoting the health and safety of the Iowa State University community, through actions both on- and off-campus. The university's faculty asks that you personally demonstrate a commitment to our <u>Cyclones Care</u> <u>campaign</u>. Iowa State University's faculty support the Cyclones Care campaign and ask you personally to demonstrate a commitment to our campaign.

9. <u>Unforeseen Circumstances and Adaptation of the Syllabus</u>

Note: Information in the syllabus is subject to change. Changes will be announced in class and posted on the course site on Canvas and/or emailed to students.

Date	Instructor	Lecture/Lab	Topic and Location
M 5/29	-	-	NO CLASS - MEMORIAL DAY
T 5/30	Lossie	Lecture 1	Biosecurity – before, during, and after a disease, NPIP Biosecurity plan, pest
			control
			Sanitation and disinfectants, worker safety, zoonotic diseases
T 5/30	Lossie	Lab 1	Hamilton Poultry Teaching Farm:
			Go over concepts of PPE, biosecurity evaluation
			Normal necropsy and vaccination (IM, IO, SC, etc)
W 5/21	Lassia	Lastera 2	Pullorum testing
W 5/31	Lossie	Lecture 2	vaccination
W 5/31	Lossie/Sato	Lab 2	Visit Iowa Turkey Federation office – leave campus 1pm (meet at loop)
			Introduction to turkey industry
			Basics of disinfection and sanitation
			Basics of vaccination and biologics
Th 6/1	Lossie	Lecture 3	Epidemiology, disease surveillance, agency disease response, previous
			outbreaks
Th 6/1	Lossie	Lab 3	Biosecurity/FAD presentations due (Ensminger Room)
F 6/2		Lecture 4	Exam 1
F 6/2	Sato	Lab 4	Visit commercial poultry facility – leave campus 1pm (meet at loop)
M 6/5	Sato	Lecture 5	Approach to poultry disease and diagnostics
			Systemic/septicemic diseases of poultry
			Respiratory diseases of poultry
M 6/5	Sato	Lab 5	Blood collection 101 (Hamilton Poultry Teaching Farm)
			Necropsy 101
T 6/6	Sato	Lecture 6	Digestive diseases of poultry
T 6/6	Sato	Lab 6	Necropsy of mortality – common pathology (Hamilton Poultry Teaching Farm)
W 6/7	Sato	Lecture 7	Neurologic diseases of poultry
			Musculoskeletal diseases of poultry
W 6/7	Porter	Lab 7	Fixed specimen disease identification
Th 6/8	Sato	Lecture 8	Immunosuppressive diseases
			Non-infectious diseases (nutrition, toxicity, management)
			NPIP
Th 6/8	Sato	Lab 8	Necropsy of chicks and diagnostic sampling
F 6/9	Sato	Lecture 9	Exam 2 and course summary
F 6/9	Sato	Lab 9	Review exam 2
			Tour of the ISU-VDL – leave campus 1:30pm (meet at loop); Lab reports due