AnSc 3703: Avian Health; 3 Cr. SYLLABUS

Instructors:

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Scheduled Time/Dates:

Instructional Lecture: Monday - Friday: 8:00 am – 12:00 pm Hands-on Laboratory/Field/Farm (poultry) Work/Necropsy: Monday - Friday: 1:00 pm – 5:00 pm

Scheduled: May 31^{st} – June 10^{th} , 2022

Locations:

Teaching Classroom – Haecker Hall 205

Teaching Lab - ASVM 448; Poultry Farm (1835 Buford Pl.) Locations shared with Physiology course.

Necropsy Lab – D222 (Veterinary Diagnostic Lab)

Instructional Time & Student Workload Assessment:

This course meets the UMN administrative policy for instructional time per course credit and student workload expectations.

Office Hours:

Please request (via email) a meeting with each instructor as needed.

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. 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.

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.

Scholastic Dishonesty

You are expected to do your own academic work and cite sources as necessary. Failing to do so is scholastic dishonesty. Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis. (Student Conduct Code: http://regents.umn.edu/sites/regents.umn.edu/files/policies/Student Conduct Code.pdf) If it is determined that a student has cheated, the student may be given an "F" or an "N" for the course, and may face additional sanctions from the University. For additional information, please see: http://policy.umn.edu/education/instructorresp. The Office for Community Standards has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: https://communitystandards.umn.edu/avoid-violations/avoiding-scholastic-dishonesty. If you have additional questions, please clarify with your instructor for the course. Your instructor can respond to your specific questions regarding what would constitute scholastic dishonesty in the context of a particular class-e.g., whether collaboration on assignments is permitted, requirements and methods for citing sources, if electronic aids are permitted or prohibited during an exam.

Disability Accommodation

The University of Minnesota views disability as an important aspect of diversity, and is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations.

- If you have, or think you have, a disability in any area such as, mental health, attention, learning, chronic health, sensory, or physical, please contact the DRC office on your campus (UM Twin Cities 612.626.1333) to arrange a confidential discussion regarding equitable access and reasonable accommodations.
- Students with short-term disabilities, such as a broken arm, **can** often work with instructors to **minimize** classroom barriers. In situations where additional assistance is needed, students should contact the DRC as noted above.
- If you are registered with the DRC and have a disability accommodation letter dated for this semester or this year, please contact your instructor early in the semester to review how the accommodations will be applied in the course.
- If you are registered with the DRC and have questions or concerns about your accommodations please contact your (access consultant/disability specialist).
- Additional information is available on the DRC websiteUM Twin Cities https://diversity.umn.edu/disability/) or e-mail (UM Twin Cities drc@umn.edu) with questions.

Sexual Harassment

"Sexual harassment" means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Such behavior is not acceptable in the University setting. For additional information,

please consult Board of Regents Policy:

https://regents.umn.edu/sites/regents.umn.edu/files/policies/Sexual_Harassment_Sexual_Assault_Stalking_Relationship_Violence.pdf

Equity, Diversity, Equal Opportunity, and Affirmative Action

The University provides equal access to and opportunity in its programs and facilities, without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. For more information, please consult Board of Regents Policy: http://regents.umn.edu/sites/r

Mental Health and Stress Management

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance and may reduce your ability to participate in daily activities. University of Minnesota services are available to assist you. You can learn more about the broad range of confidential mental health services available on campus via the Student Mental Health Website: http://www.mentalhealth.umn.edu.

Academic Freedom and Responsibility: for courses that do not involve students in research

Academic freedom is a cornerstone of the University. Within the scope and content of the course as defined by the instructor, it includes the freedom to discuss relevant matters in the classroom. Along with this freedom comes responsibility. Students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students are free to take reasoned exception to the views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. *

Reports of concerns about academic freedom are taken seriously, and there are individuals and offices available for help. Contact the instructor, the Department Chair, your adviser, the associate dean of the college, or the Vice Provost for Faculty and Academic Affairs in the Office of the Provost. [Customize with names and contact information as appropriate for the course/college/campus.]

Language adapted from the American Association of University Professors "Joint Statement on Rights and Freedoms of Students".

Unforeseen Circumstances and Adaptation of the Syllabus

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.

Schedule:

Date	Instructor	Lecture/Lab	Topic and Location
T 5/31	Lossie	Lecture 1	Biosecurity – before, during, and after a disease,
			NPIP Biosecurity plan, pest control
			Sanitation and disinfectants, worker safety,
			zoonotic diseases
T 5/31	Lossie	Lab 1 (Poultry	Poultry Teaching and Research Facility:
		Farm)	Go over concepts of PPE, biosecurity evaluation
W 6/1	Lossie	Lecture 2	Immunology – innate, humoral, and cellular
			immunity, vaccines and vaccination
W 6/1	Lossie	Lab 2 (Poultry	Normal necropsy and blood collection
		Farm)	Vaccination (IM, IO, SC, etc)
			Diagnostic sample collection on cadavers
T 6/2	Lossie	Lecture 3	Epidemiology, disease surveillance, agency disease
			response, previous outbreaks
T 6/2	Lossie	Lab 3	Biosecurity/FAD presentations due
F 6/3		Lecture 4	Exam 1

F 6/3	Lossie	Lab 4	Visit Vaxxinova & Select Genetics facilities
Weekend		•	
M 6/6	Sato	Lecture 5	Approach to poultry disease and diagnostics Systemic/septicemic diseases of poultry Respiratory diseases of poultry
M 6/6	Sato	Lab 5 (Poultry Farm)	Blood collection 101 and necropsy 101 (Normal birds, go over anatomy)
T 6/7	Sato	Lecture 6	Digestive diseases of poultry
T 6/7	Sato	Lab 6 (D222- VDL)	Necropsy of mortality – chickens Case studies – respiratory and digestive diseases
W 6/8	Sato	Lecture 7	Neurologic diseases of poultry Musculoskeletal diseases of poultry
W 6/8	Sato	Lab 7 (D222- VDL)	Necropsy of mortality – turkeys or other avian sp. Case studies – neurologic and musculoskeletal diseases
Th 6/9	Sato	Lecture 8	Immunosuppressive diseases Non-infectious diseases (nutrition, toxicity, management) NPIP
Th 6/9	Sato	Lab 8 (D222- VDL)	Necropsy of chicks or other avian sp. Exam review and quiz bowl
F 6/10	Sato	Lecture 9	Exam 2 and course summary
F 6/10	Sato	Lab 9	Tour of the UMN-VDL; Lab reports due