Course Syllabus
General Avian Science
POSC 201

Instructor: Jason Lee
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Office hours by appointment

Class schedule: TR 9:35 – 10:50 AM Kleberg 117

Teaching Assistants: Mallori Williams
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Course Description: Introduction to the poultry industry to include past, present and future industry dynamics; avian anatomy/physiology as they impact commercial production; management principals and practices of breeding, incubation, brooding, nutrition, disease control, and marketing technology

Course Learning Outcomes: At the completion of the course, each student will be able to summarize the complete structure of the three segments of the commercially poultry industry, define anatomy functions, describe current management practices to include housing, nutrition, reproduction, and disease management.

Core Objectives: Students in the course will be exposed to the following core objectives; Critical thinking, Communication, Empirical and Quantitative Skills, and Teamwork. Topics will outline the scientific background relating biological effects to avian health and production (critical thinking). Students will participate in classroom discussions that address current events covered in the media (communication). Empirical and quantitative skills will be evaluated by calculating production rates, ingredient inclusion rates, and feed efficiency ratios. Teamwork will be evaluated as small groups students will be given real world scenarios and asked to evaluate the situation and then lead a class discussion over given scenario.

Text: Poultry Science 4th ed. by Scanes, Brant, and Ensminger will be used as a source for supplemental reading by not as a mandatory text. Lecturer notes will be provided by the instructor, and will constitute the material you are held responsible for on exams.

Notes: Note packets are available at Copy Corner. Powerpoint slides will be available on elearning.

Grading Policy: A = 89.0 – 100, B = 79.0 – 89.4, C = 69.0 – 79.4, D = 59.0 – 69.4, F < 59.0

Exams: There will be three written, one hour exams and a comprehensive, final exam. These tests will consist of multiple choice, short answer, and essay type questions. The instructor reserves the right to alter this policy at any time.

Quizzes: In addition to tests, there will be 5 quizzes given through out the semester each worth 20 points. The combined grade on these quizzes (a total of 100 points) will be used in the calculation of your final grade, but only if it helps your grade. They will not penalize you. Quizzes will be given via elearning.tamu.edu and will be available for you to take for a three to four day period once they are announced in class.
For example: A student that has test grades of 88, 91, 85, and 88 would have an average of 88 and earn a B for the course. The same student had quiz grades of 16, 20, 20, 20, and 20 for a total of 96. Since the quiz total was higher than the test average, it would be used to calculate the course average (88, 91, 85, 88, and 96(quiz total)) for an average of 89.6 earning the student an A for the course.

**Guest Speakers**
There is a possibility of having some guest lectures throughout the semester. If there is a guest speaker, there will be a question on the exam about the information discussed.

**Academic Integrity Statement**
"An Aggie does not lie, cheat, or steal or tolerate those who do."
Students can refer to [http://www.tamu.edu/aggiehonor](http://www.tamu.edu/aggiehonor) for more information regarding the Aggie Honor Code.

Each test will include a statement stating:

"On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."

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Signature of student

**Academic Dishonesty**: Students are expected to be the sole source for any work submitted in their name. The utilization or submission of work of others is a violation of Texas A&M University scholastic dishonesty policies and disciplinary steps will be taken. Only authorized electronic or printed materials or equipment may be used in or near the classroom. As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research and knowledge cannot be safely communicated.

If you have questions regarding plagiarism, please consult the latest issue of the *Texas A&M University Student Rules*, under the section "Scholastic Dishonesty."

**Texas A&M Services for Students with Disabilities**: (845-1637) The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. Please contact the Department of Student Life, Services for Students with Disabilities in Rm 126 of the Koldus Bldg, if you believe you have a disability requiring an accommodation, either temporary or permanent.

**Tentative Test Schedule**
- Test 1: February 21st
- Test 2: March 26th
- Test 3: April 25th
- Final: Friday May 3rd 12:30-2:30

**Tentative On-line Quiz Schedule**
- Feb. 5th - 8th
- March 5th - 8th
- March 19th - 22nd
- April 2nd - 5th
- April 16th - 19th
CLASS AND TEST SCHEDULE ARE SUBJECT TO CHANGE. IF A CHANGE HAS TO BE MADE, STUDENTS WILL BE NOTIFIED VIA EMAIL AS SOON AS POSSIBLE. IF A TEST DATE IS TO BE CHANGE, A MINIMUM OF 1 WEEK NOTICE WILL BE PROVIDED.
Course Schedule
Lecture 1 - Syllabus and Course Overview
Lecture 1 - Chapter 1 - History and Development of commercial Poultry Industry in the US
  * Broiler
  * Turkey
  * Egg Production
Lecture 5-12
Chapter 2 - Biological Systems of Birds
  * Lecture 5 - Skeletal and Muscle
  * Lecture 6 - Respiratory and Urinary
  * Lecture 7 - Integument and Circulatory
  * Lecture 8 - Digestive
  * Lecture 9 - Nervous
  * Lecture 10 - Endocrine
  * Lecture 11 and 12 - Reproductive
Lecture 13 and 14
Chapter 3 - Poultry Breeding
  * Qualitative genetics
  * Quantitative genetics
  * Sex linked genes
Lecture 15 and 16
Chapter 4 -- Incubation and Hatchery Management
  * Factors effecting fertility and hatchability
  * Natural and Artificial Incubation
  * Single and Multistage Incubators
  * Hatchery Services
Lecture 17 and 18
Chapter 5 -- Brooding and Rearing Management
  * Broilers
  * Layers
  * Turkeys
  * Breeders
Lecture 19
Chapter 6 -- Poultry Housing and Equipment
  * Positive/Negative Air Pressure Systems
Lecture 20 and 21
Chapter 7 -- Poultry Diseases
  * Biosecurity
  * Respiratory Diseases -- Viral, Bacterial, and fungal
  * Tumor causing diseases
  * Protozoan
  * Bacterial
  * Viral