



ANFS 421 POULTRY PRODUCTION

Lecture: Online

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Office Hours: Open door policy, but recommend making an appointment

Course Description:

ANFS 421 integrates principles of anatomy, physiology, nutrition, genetics, reproduction, housing, health, management, nutrient management, processing, economics and biosecurity as they relate to the poultry industry. This course is intended to utilize the core concepts of the Animal and Food Sciences Curriculum as it relates to poultry production. Lecture periods will consist primarily of instructor presentations and group work to cover the course materials. Laboratory periods are designed to reinforce course content by development of “hands on” skills used in poultry production. This course has considerable out-of-class time commitment consisting of individual and group work to reinforce concepts learned in class using real-world examples.

Spring 2009 Special Note for Online Students

Right now ANFS 421 Poultry Production is a combination of lecture and laboratory for 4 credits, and qualifies as a production course for Animal Science majors. In the fall of 2009 this course will become two separate courses; ANFS 421 Poultry Production Lecture (3 credits) and ANFS 422 Poultry Production Laboratory (1 credit). To qualify as a production course, both courses will be required.

In Spring 09, in the online course, to meet the requirements for this course to qualify as an Animal Science production course, you will need to participate in-person in a special poultry project on the CANR Poultry Farm outside of lecture.

Course Objectives:

1. Students will demonstrate, integrate and apply knowledge of the major core concepts of Animal and Food Sciences as they apply to the poultry industry.
2. Students will use critical thinking and reasoning, skeptical inquiry and the scientific approach to solve problems relevant to the poultry industry.
3. Students will demonstrate effective writing and oral skills important for communicating scientific ideas.
4. Students will demonstrate reflective thinking and will evaluate their contributions to their own learning and to the learning of their peers.
5. Students will demonstrate an understanding of different perspectives on ethics, values and the roles and use of animals in society. Students will be able to discuss contemporary ethical and moral issues associated with poultry production.

Prerequisites

ANSC 101 and ANSC 140 or permission of the instructor

In addition, you must have proficiency in using the Internet, Microsoft Word, and online Library resources.

Schedule and Assignments

You are responsible for reading and understanding all the documents in the SYLLABUS section of Sakai@udel.edu for this course

The **Lecture Outline** summarizes the topics of study and assignment deadlines in a week-by-week format. Assignments and grading criteria are listed in the Syllabus and under the **ASSIGNMENTS & GRADEBOOK** subsections of **Sakai**. The deadline time for the dates listed will be 11:49PM unless otherwise listed. You are responsible for reading and understanding the Syllabus by the end of the first week of the course.

Course Methods

A variety of methods will be used within this course to facilitate and support your learning process. It is expected that before beginning any activities within the Lecture Outline, that you will complete the assigned readings so that you will be familiar with the terms, concepts, and processes within the module. Once readings are completed, you will study other resources and perform other activities within the course and listed

in **ANNOUNCEMENTS** and **ASSIGNMENTS** subsection of **Sakai**. You will be expected to participate regularly in all assigned activities and complete discussion and assignments before stated deadlines.

Other instructional activities might include:

- small group discussions
- student presentations
- guest speakers
- module notes with assigned readings and activities
- semester project
- videos
- Checking on chickens on the Poultry Farm two-five times per week for 7 weeks

Grading:

Exams I & 2	200	A	93%
Final Exam	100	A-	90%
Written report	50	B+	87%
		B	84%
Lecture quizzes	50	B-	81%
		C+	77%
Scientific Paper Critique	25	C	74%
Semester Project	<u>100</u>	C-	70%
		D+	67%
Total	525	D	64%
		D-	60%
		F	59%

Group Work:

You will be assigned to group semester project. Your group (as a whole) will be responsible for seeing that activities are completed; however, you will complete some assignments individually. Your activities will be monitored through the use of a log. You should make entries in the log as individuals and you are free to comment as you wish. Decisions on when to work on the semester project will include input from all group members and decide once the class roster is finalized. Remember that all times will not please all members and you should compromise. Tasks should be shared among all group members. If at any time, you feel that your group is not working well together and members are not contributing equally, please contact the instructor immediately.

Discovery Learning Semester Project:

A major part of your grade in this course is determined by a group semester project done outside of lecture. The group will setting and hatching chicks to critically evaluate over the course of the semester. Students will collect and critically evaluate data pertaining to their chickens at weekly intervals throughout the flock grow-out. At the end of the semester, students will give oral and written presentations of their findings. Semester project grading will be based on individual contributions to the group (25%), a group oral presentation (25%), and an individual written report (50%).

News break:

For in person students, during every lecture we will have a break to discuss current topics related to the course material. Students may volunteer to share an article related to the course material. The student must hand in a copy of the article at the end of lecture (with student's name and date) for in person students. Online students will be able to submit two current topic articles per month by email. Each student will be allowed a total of 5 Newsbreaks and will receive 1 point per topic.

Important dates: First Hour Exam is the week of 3/16.
2nd Hour Exam is the week of 5/4.
Final Exam during final exam week, 5/25.
Outside of class, checking on chicks on the Poultry Farm, 2-5 times per week from March to May.

Group Semester Project Participation: Participation is essential to the success of this course and it is included in your grade. You will be expected to contribute to laboratory.

Lecture Assignments: Throughout the semester there will be several short-term assignments for both lecture and group semester project. These include but are not limited to data collection assignments, data evaluation assignments, reflection assignments and an individual oral presentation.

Textbook: No textbook is required. Selected readings of scientific papers, extension publications, trade paper articles and online materials will be used instead. In addition, videotapes/CDs/DVDs will be available in the Agricultural Library on reserve for the course. For students looking for an excellent reference book, Commercial Chicken Meat and Egg Production Manual by Donald D. Bell and William D. Weaver, Jr. is recommended and will also be on reserve in the library.

Exams: Exams will consist of two exams and a final. All exams will cover the information from the lectures. The final will be given during the time designated by the University (week of 5/25). Only under extenuating circumstances will make up exams be administered. You must schedule a make-up exam BEFORE the regular exam date (must have advanced notice and written excuse).

Academic Dishonesty:

Academic dishonesty of any form will not be tolerated. You are encouraged to become familiar with the University's Policy of Academic Dishonesty found in the "Student Guide to Policies." Copies of it may be obtained from the Dean of Students Office, 218 Hullahen Hall. The content of the guide applies to this course.

Disruptive Behavior:

Disruptive behavior, such as talking during lectures, consistent late arrival or early departure, eating, etc., will be the basis for asking a student to leave a class. Persistent disruptive behavior will result in the student being dropped from the class and denied attendance.

**ANFS 421
Poultry Production**

Lecture Topics:

Overview/Industry Structure
Broiler Housing & Management
Environmental Control
Ventilation Fundamentals
Tunnel Ventilation
Avian Physiology
Light and Lighting Programs
Broiler Diseases
Avian Influenza
Immunity & Vaccination
Nutrition
Primary Breeders
Broiler Breeder/Hatchery Mgmt
Broiler Grow-out
Processing/HACCP
Table Egg Production
Food Safety
Environmental/Nutrient Mgmt Regulations
Litter/Waste Mgmt.

Semester Project Guidelines

Poultry Production Spring 2009

Background

The class will be growing a flock of chickens. Each group will hatch out chicks. The group will monitor their chicks and collect data from their chickens throughout the semester. The goal of this project is to learn how chickens are managed on a poultry farm and to learn about the everyday problems of chicken management. The best way to learn about this process is by actually raising a flock. Students and groups will weekly collect and evaluate data pertaining to their broilers and the entire flock throughout the grow-out. At the end of the grow-out, students will organize and synthesize the information and present it both in a group oral presentation and an individual written presentation.

Grading (100 points total)

Individual contributions to the group: Students who are present for the semester project, take an active role in data collection, and are evaluated well by the other group members will receive full credit. (25 pts)

Oral presentation: The Group will prepare a 15-25 minute presentation synthesizing the information they learned throughout the semester. Presentations will focus on the main aspects of their project. All team members will participate in the presentation and receive the same grade. (25 pts)

Written report: Each student will prepare two individual essays included in the lab report that are collected during the semester. The lab report will document not only what the student learned, but will also contain a reflection component on how the discovery learning project impacted student learning of core concepts. (50 pts/report)

The final semester lab project report will contain the following sections:

- Introduction to the report (1-2 page short essay). This part is not so much about the animals as it is about your initial perceptions of the animals and the project. Some things you might consider: What was the purpose of this project? What did you hope to learn from the project? What did you hope to accomplish over the semester? Did you have any hypotheses at the start about how things would turn out? What data are you hoping to collect?

- A description of your chickens and the pertinent information collected during the semester. Feel free to use graphs, tables or any other presentation aides.
- Assessment of your broilers performance compared to the flock average and to the projected average.
- Conclusions and reflections (second short essay). This should describe your final perceptions about the project and it should relate to the material presented in the introduction. Some things to consider: Did this project accomplish its purpose? Did you learn what you had hoped to learn from the project? Were you able to collect enough information about your chickens? Were your hypotheses correct? What do you wish had been done differently? What additional data would have been useful?