COURSE OUTLINE

<u>Poultry and Swine Production</u>
Course Title

<u>AG215</u>
Dept. & Course No.

I COURSE DESCRIPTION

This course provides general instruction in the techniques of poultry and swine production, including breed selection, feeding, management and disease control. It emphasizes poultry and swine production in the tropics. Pre: AG 123 (3 credits lec, 1 credit lab)

II SEMESTER CREDITS: <u>4</u>

III CONTACT HOURS PER WEEK: <u>3</u>   <u>1.5</u>   <u>4.5</u>
    Lec   Lab   Total

IV PREREQUISITE: <u>AG123</u>

V STUDENT LEARNING OUTCOMES

Upon completion of the course, the student will be able to achieve 65% proficiency to:

1. Discuss the importance of poultry raising.

2. Describe the different types and breeds of chicken.

3. Explain the different desirable characteristics of chicken breeds.

4. Discuss the essential features for a successful chicken house or shelter.

5. Identify and describe the different types of poultry housing.

6. Demonstrate knowledge in the management practices in different stages of chicken growth.

VI COURSE CONTENT

A. The Importance of Poultry Industry

B. Choosing the Perfect Chicken
   1. Breeds   5. Egg layers
   2. Classes   6. Broilers
   3. Varieties   7. Dual purpose
   4. Strains

C. Breed Selection

D. Housing
   1. Coop design
   2. Space requirement
   3. Ventilation
   4. Temperature control
   5. Flooring
   6. Bedding
   7. Roost and nests
   8. Cages
   9. Dry litter system

E. Types of Poultry Houses

F. Poultry Management Practices for Chicks, Broilers, and Layers
   1. Proper use of incubator
   2. Brooding
   3. Rearing

7. Identify the nutritional needs of a chicken through its life cycle

G. Poultry Nutrition
   1. Poultry rations
   2. Home-Mixed rations

8. Discuss the proper procedures for handling chicken eggs.

H. 1. Collecting
   2. Cleaning
   3. Storing
   4. Transporting

9. Identify the signs and symptoms of poultry diseases and explain their preventive and control measures.

I. Poultry Diseases
   1. Signs and symptoms
   2. Prevention
   3. Treatment

10. List the importance and characteristics of the swine enterprise.

J. Overview of the Swine Enterprise

11. Identify and describe the different breeds of swine.

K. Selection of Breed and Their Characteristics

12. Identify and describe the internal and external anatomy of swine.

L. Swine Anatomy
   1. External and internal structures

13. Describe the feeding programs for the different growth stages of swine.

M. Feeding and Management
   1. Selecting feeds for swine
   2. Feeding the breeding herd
   3. Feeding the piglets
   4. Feeding the growing-finishing pigs

14. Demonstrate knowledge in the accepted management practices in swine raising from pre-breeding to weaning to market.

N. Management Practices
   1. Pre-breeding
   2. Breeding-Gestation
   3. Reproductive problems
   4. Farrowing
   5. Farrowing to weaning
   6. Weaning to market
   7. Feeder pigs

15. Describe the causes, symptoms, prevention, and control of common swine diseases and parasites.

O. Disease and Parasites Prevention
   1. Infectious diseases
   2. Nutritional health problems
   3. External and Internal parasites

16. Describe the different facilities required for swine production

P. Swine Housing and Equipment
   1. Site selection and building placement
   2. Kinds of buildings
   3. Ventilation
   4. Floors
   5. Breeding facilities
   6. Farrowing facilities
   7. Growing and finishing facilities
   8. Dry litter system

VII MATERIALS AND EQUIPMENT

    A. Visual aids of Poultry Animals and Breeds of Swine
    B. Poultry houses and equipment
    C. Piggery house and equipment
    D. Poultry and Pig feeds
    E. Transportation
    F. Overhead Projector
    G. Digital Camera
    H. Standard Classroom Materials
    I. Computer

VIII TEXTS

Damerow, G. *Storey's Guide to Raising Chickens*. North Adams, Massachusetts: Storey Book Publishing, 1995.

Gillespie, James R. *Modern Livestock & Poultry Production*, 7th Ed. Clifton Park, NY: Cengage Learning, 2004.

Pratt Food Co. 2005. Pratt's *Practical Pointers on the Care of Livestock and Poultry*. Produced by Bruce Albrecht, K.D. Thornton, Janet Blenkinship and the Online Distributed Proofreading Team. https://www.gutenberg.org/files/16744/16744-h/16744-h.htm

IX METHOD OF INSTRUCTION

    A. Lecture- Discussion
    B. Demonstration
    C. Laboratory/Field Activities
    D. Student Projects
    E. Field Trips

X METHOD OF EVALUATION

The lecture portion of this course will account for 50% of the grade while the laboratory will provide the other 50%.

A. The components included in the computation of the final grade, with corresponding weights in percent, are:

Lecture	Percentage of Grade
Participation	05%
Quizzes	10%
Assignments	15%
Midterm & Final Exam	20%
Laboratory	
Participation	25%
Laboratory Write-Ups	05%
Projects	20%
TOTAL	100%

B. The transmutation of percent to letter grade is as follows:

90% – 100%	A
80% – 89%	B
70% – 79%	C
65% – 69%	D
0% - 64%	F

TASK LISTING SHEET

<u>AG215 Poultry and Swine Production</u>
     Course Number and Title

Credits: <u>3</u> <u>1</u>   <u>24</u>
          Lec Lab Total Lab hrs

TASKS	HOURS
SLO #2-7	3
1. Visit different poultry farms and identify the different animals raised by the farmers.	
2. Identify and describe the different types and breeds of chicken.	
3. Make an evaluation of the performances of the different types and breeds of chicken.	
4. Observe the different types of poultry houses in various poultry farms and compare their respective advantages to existing environment.	
SLO #8-9	9
1. Demonstrate proper management practices of poultry raising:	
a. Feed the right amount and types of feed to each stage of growth.	
b. Utilize local feed materials to supplement the feed requirements of the chickens.	
c. Incubate fertilized eggs and record the data collected	
d. Observe the chickens in the poultry house and make accurate diagnosis on the symptoms of pest and diseases and recommend effective preventive and control measures.	
e. Observe and maintain sanitation practices.	
SLO #10-11	3
1. Visit piggery farms and identify the different types and breeds raised and list down their respective descriptions.	
2. Make comparison of their productivity and adaptability.	
SLO #13-14	9
1. Perform proper management practices of swine raising:	
a. Feed the right kind and amount of feed for every growth stage.	
b. Feed supplementation.	
c. Care and sanitation programs.	
d. Breeding	
e. Farrowing	
f. Weaning	
TOTAL LAB HOURS	<u>24</u>

*Lab hours are subject to change as necessary

During the course experience, the ***course learning outcomes*** (CLOs) will be assessed through the use of signature assignments. A rating scale will be used to determine the students' proficiency level of each CLO using specifically aligned assignments. The numerical ratings of 4, 3, 2 and 1 are not intended to represent the traditional school grading system of A, B, C, D and F. The descriptions associated with each of the numbers focus on the level of student performance for each of the course learning outcomes listed below.

Rating Scale: 4   Outstanding
                 3   Proficient
                 2   Developing
                 1   Emerging

CLO # 1

Numerical Value	Students will be able to identify and describe the different types and breeds of chickens.
4	Perform all the following tasks accurately • Correctly identify and describe the common breeds of egg laying chickens. • Correctly identify and describe the common breeds of broilers.
3	Perform the tasks mentioned above but most with only minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete any of the tasks mentioned above

CLO # 2

Numerical Value	Students will be able to describe the desirable characteristics of chickens when selecting a breed.
4	Perform all the following tasks accurately • Accurately describe the desirable traits for selecting an egg layer breed. • Accurately describe the desirable traits for selecting a broiler breed.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete any of the tasks mentioned above

CLO # 3

Numerical Value	Students will be able to demonstrate knowledge in the management practices in different stages of chicken growth.
4	Perform all the following tasks accurately • Accurately explain the management practices from day old or newly hatched chicks to mature egg laying hens. • Accurately explain the management practices from day old or newly hatched chicks to mature broilers.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete any of the tasks mentioned above

CLO # 4

Numerical Value	Students will be able to identify the nutritional needs of a chicken throughout its life cycle.
4	Perform all the following tasks accurately • Accurately identify the nutritional needs of egg layers from chicks to mature egg laying hens. • Accurately identify the nutritional needs of broilers from chicks to marketable weight.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete any of the tasks mentioned above

CLO # 5

Numerical Value	Students will be able to identify and describe the different types and breeds of swine.
4	Perform the following tasks accurately • Accurately identify and describe the different important breeds of swine.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete the tasks mentioned above

CLO # 6

Numerical Value	Students will be able to discuss the feeding programs for the different growth stages of swine.
4	Perform the following tasks accurately • Accurately provide the correct feeds and water in correct amounts for the different growth stages of swine.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete the tasks mentioned above

CLO # 7

Numerical Value	Students will be able to demonstrate knowledge in the accepted management practices in swine raising from pre-breeding to weaning to market.
4	Perform the following tasks accurately • Accurately follow proper management practices in swine raising from pre-breeding to weaning to market.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete the tasks mentioned above

CLO # 8

Numerical Value	Students will be able to explain the factors to consider when selecting a suitable breed of swine.
4	Perform the following tasks accurately • Accurately identify and explain the different desirable traits essential for selecting a suitable breed of swine.
3	Perform the tasks mentioned above but most with minor mistakes
2	Perform the tasks mentioned above but most are inaccurate or incomplete
1	Unable to complete the tasks mentioned above