College of Micronesia-FSM

PO Box 159
Pohnpei, FM 96941

AGRICULTURE (AG) 092
Swine and Poultry Production

Course Description (Catalog)

Introduces the basic skills and principles of swine and poultry production including breed selection, feeds, housing, management, and animal health.

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	Hours / Week	#. Of Weeks	Total Hours	Semester Credits
Lecture	3	16	48	3
Laboratory				
Workshop				
Total Semester Credits				

Purpose of Course:

Degree Requirement: _____
Degree Elective: _____
Certificate: ____X____
Remedial: _____
Other: _____

Prerequisite of Courses: None

_____ _____
Signature, Chair Curriculum Committee Date Approved by Committee

_____ _____
Signature, President, COM-FSM Date Approved by President

AG 092 Swine and Poultry Production

I COURSE OBJECTIVE

Program Learning Outcomes:

Upon successful completion of the Certificate of Achievement in Agriculture & Food Technology, students will be able to:

1. Demonstrate an overall knowledge of the crop production process.
2. Practice good agricultural management and marketing skills.
3. Identify and demonstrate the fundamentals of food processing, preparation techniques, the relationship between scientific principles and cooking procedures.
4. Identify and demonstrate basic skills and principles of swine and poultry production techniques including breed selection, feed, housing, management techniques and animal health.
5. Apply the basic skills and knowledge of nursery micropropagation practices, transplanting, harvesting and maintenance.
6. Identify the proper use of land for agriculture purposes, local ornamental and turf management.

Student Learning Outcomes

By the end of this course students will be able to:

1. Identify and give characteristics of the different breeds of swine and poultry.
   - 1.1. Identify the major breeds of swine and poultry and their origins.
   - 1.2. Characterize the major breeds of swine and poultry and give an advantage and disadvantage for each major characteristic.

2. Identify and describe simple swine and poultry needs and management practices related to reproduction, health, and environment.
   - 2.1. Describe the reproductive physiology of swine and poultry.
   - 2.2. Identify major health problems of swine and poultry and recommend a solution for each problem.
   - 2.3. Explain how environment can affect swine and poultry production.

3. Determine feed sources for swine and poultry.
   - 3.1. Determine feed sources for each animal and age group depending on their need.
   - 3.2. Give the components of an ideal feed ration for each animal and age group.

4. Demonstrate simple swine and poultry management procedures.
   - 4.1. Demonstrate castration.
   - 4.2. Demonstrate immunization and administration of veterinary drugs.
   - 4.3. Demonstrate ear notching.
   - 4.4. Demonstrate how to butcher swine and dress poultry.

II COURSE CONTENT

1. Introduction
    a. Hunter and gathers
    b. Domestication of animal (Beginning of animal science)
    c. Early Husbandry
2. Swine
    a. Breed
        i. Selection of breed
    b. Kinds of feed
        i. Growth – Weaning Piglets, growers, finishers
        ii. Sow/ gilts
        iii. Boar
    c. Reproduction
        i. Anatomy
        ii. Puberty, estrus
        iii. Selection/ Breeding for quality and quantity (litter size)
        iv. Gestation
        v. Ultra sonic – pregnancy test
        vi. Farrowing
        vii. Artificial insemination
    d. Disease
        i. parasites
        ii. nutrition and environmental related conditions
        iii. reproductive related diseases
        iv. communicable diseases
        v. cross species transmissible diseases
    e. Swine management
        i. Feeder pig production
        ii. Finish program
        iii. Farrow to finish
        iv. Purebred operations
3. Poultry
    a. Zoological Classification
    b. Geographical distribution
    c. Improvements of breed
    d. Anatomy
    e. Feeding
        i. Ingredients – feed
        ii. Essential nutrients
        iii. Digestive system
        iv. Feeding with a purpose
    f. Diseases
        i. Disease of the respiratory tract
        ii. Avian tumor disease
        iii. Coccidiosis
        iv. Salmonelloses
    g. Parasites
        i. Poultry parasites
        ii. Internal poultry disease
        iii. Behavioral problems

h. Reproduction
    i. Male reproduction system
    ii. Female reproduction system
    iii. Breeding physiology
    iv. Hatchability
    v. Brooding
i. Broiler and layer industry
    vi. Broiler
    vii. Layer

III TEXTBOOK

Taylor, R.E. *Scientific Farm Animal Production: An Introduction to Animal Science* 9th Edition. Upper Saddle River, NJ: Prentice Hall, 2001. ISBN 9780132447362

IV REFERENCE

Ensminger, M.E. *Poultry Science* 3rd Edition(or latest edition). Danville, IL: Interstate, 1992. ISBN: 0-8134-292903 (Available at the COM-FSM Library).

V REQUIRED COURSE MATERIALS

Rubber boots
Rubber gloves
Calculator

VI INSTRUCTIONAL MATERIALS/EQUIPMENT AND COST FOR THE COLLEGE

Access to swine and poultry for demonstration purposes (either College farm or cooperating farm).

Long-Term Supplies	$1,100
• Castration supplies	$80
• Ear notching supplies	$80
• Poultry Coop	$500
• Exercise Pen	$100
• Veterinary Equipment	$100
• Piglet Pullers	$100
• Weighing scale	$100
• Handtools (shovels)	$50

Short-term supplies/semester

• Veterinary kits	$200

VII METHODS OF INSTRUCTION

Lectures, demonstrations and farm visits.

VIII EVALUATION

Theoretical and practical examinations suggested.

100 – 90 = A
89 – 80 = B
79 – 70 = C
69 – 60 = D
59 – Below = F

IX CREDIT-BY-EXAMINATION POLICY

None.

X ATTENDANCE POLICY

College of Micronesia-FSM Attendance Policy will be applied.

XI ACADEMIC HONESTY POLICY

College of Micronesia-FSM Academic Honesty Policy will be applied.