SECTION HEADING

AGRI 2201: Principles of Animal Nutrition

Description

Principles of Animal Nutrition covers the classification and function of nutrients, digestion, and utilization of feeds. This includes nutrient requirements for livestock and poultry, nutrient composition, and feeding standards.

Credits

3

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Feed Nutrients and There Functions

2. Feed Analysis

3. Comparative Digestive Systems

4. Proteins

5. Carbohydrates

6. Fats

7. Water

8. Minerals & Vitamins

9. Develop Rations for Swine, Beef, Dairy, Poultry, Horses

10. Classification of Feed Stuffs - Roughages, Concentrates, Supplements

Learning Outcomes

1. Explain the nutrient requirements of livestock and six basic nutrients.

2. Compare differences and similarities of digestive systems

3. Explain feed stuff digestion and nutrient absorption.

4. Identify symptoms of nutrient deficiencies.

5. Explain the analytical methods used to determine nutrient composition of feed stuffs.

6. Describe how to determine digestibility of feed stuffs.

7. Classify feed into the various categories.

8. Identify factors regulating feed intake by livestock.

9. Describe and apply mathematical solutions to animal diet formulations.

10. Compare life-cycle feeding programs for beef, swine, dairy, poultry, and horses.

11. Calculate rations for the various livestock species.

Credit Details

Lecture: 3

Lab: 0

OJT: 0

MnTC Goal Area(s): None