

COURSE OUTLINE

Feeder Livestock Production Management

Course Description:

AG108. Feeder Livestock Production Management. 3 hours credit. This course will enable the student to understand the principles related to effectively managing feeder livestock.

Course Relevance: The principles learned in this course will allow the student to be better equipped to manage feeder livestock.

Required Materials:

Instructor notes, extension bulletins industry handbooks, handouts and other materials will be utilized to emphasize concepts and discussion.

Learning Outcomes:

The intention is for the student to be able to:

1. Select, purchase, and market livestock in the growing stage of production and determine the profitability of the livestock enterprise.
2. Develop a successful health program for livestock in the growing stage of production which involves disease identification, vaccination efficacy, treatment procedures.
3. Design a feeding program for livestock in the growing state of production which meets nutritional requirements and enhances the profitability of a livestock production operation.
4. Develop proper housing and handling facilities for livestock.

Learning PACT

Through the student involvement in this course, the student will develop and document his/her achievement of the following PACT skills:

Primary skills (developed and documented):

1. Critical Thinking
 - Through the analysis of various feeder livestock production management principles, think through the process and make well founded decisions.
2. Problem Solving
 - Through the understanding of feeder livestock production management, solve problems related to animal care, breeding, management and marketing.
3. Field-Related Training
 - Through the demonstration of various feeder livestock production management activities, perform these activities at a satisfactory level

Secondary skills (developed but not documented):

- Computer literacy
- Time management

Assessment Tasks:

These learning outcomes and primary Learning PACT skills will be demonstrated by:

1. Surveying the livestock industry's criteria for measuring consumer acceptance of final end product (High quality, safe food in the form of meat)
2. Weighing and feeding livestock in controlled trials
3. Treating animals with approved products and vaccines to improve their health and safety

Course Content:

- I. Themes - Key recurring concepts that run throughout this course:
 - A. Quality forces
 - B. Profit margins
 - C. Consumer satisfaction

- II. Issues - Key issues that will be addressed in this course: areas of conflict that must be understood in order to achieve the intended outcome:
 - A. Providing a healthy product
 - B. Providing environmentally responsible production
 - C. Safety in the use of non-nutrient feed additives

- III. Concepts – Key concepts that must be understood to address the issues:
 - A. Genetic capacity of animals
 - B. Selection principles
 - C. Use of new approved technologies

- IV. Skills / Competencies - Actions that are essential to achieve the course outcomes:
 - A. Livestock Selection, Acquisition, and Marketing
 1. Discuss types of marketing
 2. Analyze marketing information from a local livestock market
 3. Identify the types of charges and selling fees involved to livestock auctions
 - a. Calculate shrinkage
 - b. Calculate break even prices
 - c. List factors that will be considered when selecting feeder livestock

 - D. Animal Health Care
 1. Discuss the health care plan and how veterinarians and herd managers work together
 2. Recognize the signs of a healthy animal

3. Recognize the signs of an unhealthy animal
 4. Match livestock to their normal ranges of temperature and breathing rate
 5. Measure an animal's temperature
 6. Check an animal for signs of good health
 7. Develop a health plan to meet individual producer needs
 8. Diagnose and treat illness-utilizing methods, which align with the beef quality assurance program
 9. Maintain an accurate record keeping system relating to health care
 10. Match common infectious and uninfected diseases to their descriptions, which are specific to growing cattle
 11. Apply husbandry practices, which reduce stress and disease
 12. Identify standard medications
 13. Calculate dosages for animal health products
 14. Administer medication according to label description
 15. Outline the techniques used to administer a bolus
 16. Discuss guidelines for syringe use and care
 17. Match types of injections to their descriptions
 18. Identify proper injection sites according to the beef quality assurance program
 19. Give an intramuscular injection
 20. Determine the effects of growth stimulants relating to average daily gain and profitability
 21. Implant cattle in the growing stage of production
 22. Report on new technology and developments in vaccinations and drugs
- E. Nutrition, Feeds, and Additives
1. Identify the factors to consider when buying feed
 2. Compare the costs of feeds with specific additives
 3. Determine proper feed storage and handling practices
 4. Use a computer program to balance a proper ration for growing cattle
 5. Determine proper nutrient and water requirements for growing cattle
- F. Livestock Facilities
1. Determine livestock facilities needed
 2. Develop a waste handling strategy
 3. Develop a facilities maintenance program
 4. Compare construction techniques
 5. Recognize quality equipment, buildings, and fencing materials

Learning Units:

- I. Livestock Selection, Acquisition, and Marketing

- II. Animal Health Care
- III. Nutrition, Feeds, and Additives
- IV. Livestock Facilities

Learning Activities:

Learning activities will be geared towards lectures and lab assignments. Classroom lecture is designed to enable the students to understand the principles of feeder livestock production management.

Grade Determination:

The student will be graded on satisfactory completion of assessment tasks (learning activities), attendance, and written examination.