Animal Science

Course Number: 02.42100 **Prerequisite:** Basic Agriculture
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Units of Instruction: Employability Skills, Working Safely in Agricultural Lab and Work Sites. Application of Scientific Methods In Agriculture and Animal Research and Production, Various Phases, Trends, Segments, and Consumption of Large Animal Industry, Various Phases, Segments, Trends, and Consumption of Poultry Industry, Various Phases, Segments, Trends, and Consumption Of Dairy Industry, Evaluate Trends in the Aquaculture Industry and Scientific Principles in Production of Aquatic Animals, Describe Various Phases, Segments, Trends, Demand, and Consumption of Alternative and Laboratory Animals. Classify Animals Using Scientific Binomial Nomenclature As well as By Breed and Use, Explain the General Public's Food Safety Concerns, Compare and Contrast Crucial Animal Welfare Issues, Observe and Interpret Natural Behavior of Agricultural Animals, Apply Genetic Principles to Animal Selection, Breeding, and Production, Apply Scientific Methods of Animal Selection, Discuss Reproductive Anatomy and Biological Processes of Agricultural Animals, Describe Physiological Processes involved In Prenatal and Postnatal Growth and Development, Explain Nutrient Sources and Functions As They Relate To Monogastric and Ruminant Animals, Investigate Chemical and Physiological Properties of Meat Products and Preservation, Describe Effects, Development, and Control of Parasites in Agricultural Animals, Identify and Describe Animal Diseases, Immune Systems, and Disease Prevention and Control Programs.

Course Standards:

Standard	Description
AFNR-ASB-1	Demonstrate employability skills required by business and industry.
AFNR-ASB-2	Orient and apply the comprehensive program of agricultural education, learns to work safely in the agriculture lab and work sites, demonstrates selected competencies in leadership through the FFA and agricultural industry organizations, and develop plans for a Supervised and Agriculture Experience Program (SAEP).
AFNR-ASB-3	Demonstrate the application of scientific methods in agricultural animal research and production.
AFNR-ASB-4	Describe the various phases, segments, trends, consumption, and economic scope of the large animal industry.
AFNR-ASB-5	Describe the various phases, segments, trends, consumption, and economic scope of the poultry industry.
AFNR-ASB-6	Describe the various phases, segments, trends, consumption, and economic scope of the dairy industry.
AFNR-ASB-7	Evaluate trends in the aquaculture industry and the scientific principles involved in the production of aquatic animals.
AFNR-ASB-8	Describe the various phases, segments, trends, demand, consumption, and economic scope of the alternative and laboratory animals.
AFNR-ASB-9	Classify animals using scientific nomenclature as well as classifies agriculture animals by breed and use.
AFNR-ASB-10	Explain and addresses the general public's food safety and environmental concerns.
AFNR-ASB-11	Compare and contrast crucial animal welfare issues and explain the benefits of treating animals in a humane manner and providing for the needs of animals.
AFNR-ASB-12	Observe and interpret the natural behavior of agricultural animals and relate these behaviors to production practices yielding more content, healthier, and productive animals.
AFNR-ASB-13	Apply genetic principles to animal selection, breeding, and production.
AFNR-ASB-14	Apply scientific methods of animal selection and explain the advantages and disadvantages.
AFNR-ASB-15	Discuss the reproductive anatomy and biological processes involved in the reproduction of agricultural animals.
AFNR-ASB-16	Describe the physiological processes involved in prenatal and postnatal growth and development of agricultural animals..
AFNR-ASB-17	Explain nutrient sources and functions as they relate to monogastric and ruminant agricultural animals.
AFNR-ASB-18	Investigate the physiological and chemical properties of meat products and preservation.
AFNR-ASB-19	Describe the effects, development, and control of parasites in agricultural animals.
AFNR-ASB-20	Identify and describe animal diseases, animal immune systems, and disease prevention and control programs.

Curriculum Pacing Map:

First Semester						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
2 weeks	2 week	3 week	2 weeks	3 week	2 weeks	3 weeks
Opportunities in the Animal Industry	The Science of Animal Production	Animal Types and Uses	Animal Products and Processing	Modern Animal Production	Animal Behavior and Handling	Animal Growth and Development
AFNR-ASB-1	AFNR-ASB-2	AFNR-ASB-3	AFNR-ASB-4	AFNR-ASB-5	AFNR-ASB-6	AFNR-ASB-7

Second Semester					
Unit 8	Unit 9	Unit 10	Unit 11	Unit 12	Unit 13
3 week	3 weeks	3 weeks	3 weeks	3 weeks	2 weeks
Animal Nutrition and Feeds	Animal and Herd Health	Animal Selection and Heredity	Animal Reproduction and Breeding	Alternative Animals	The Aquaculture Industry
AFNR-ASB-8	AFNR-ASB-9	AFNR-ASB-10	AFNR-ASB-11	AFNR-Asb-12	AFNR-ASB-13