

AGRICULTURE ANIMAL SCIENCE (AGAS)

AGAS 1001 Principles of Animal Science Laboratory

Study of management and the facilities used in the production of beef cattle, swine, sheep, and horses. Optional for others. Laboratory two hours.

Note: Laboratory mandatory for all animal science majors.

AGAS 1014 Principles of Animal Science

A study of the American livestock industry and the scientific principles underlying the management and production of livestock and poultry. Lecture three hours, laboratory two hours. \$50 laboratory fee.

AGAS 2014 Principles of Meat Science

Prerequisite: AGAS 1014 or consent of instructor.

Integrated studies of the meat animal processing sequence regarding the production of meat-type animals and the science and technology of their conversion to human food. Lecture meets three days per week for fifty minutes and Lab meets one day per week for 110 minutes. \$50 laboratory fee.

AGAS 2084 Feeds and Feeding

Principles of animal nutrition, characteristics of feed ingredients, feeding strategies and formulation of rations for farm animals. Lecture three hours, laboratory two hours. \$50 laboratory fee.

AGAS 3004 Reproduction in Farm Animals

Prerequisite: AGAS 1014 or consent of instructor.

Anatomy and physiology of the reproductive system of farm animals; to include a study of the causes of reproductive failure, management to improve reproductive efficiency, and practical training in pregnancy testing and artificial insemination of cattle. Lecture three hours, laboratory two hours. \$50 laboratory fee.

AGAS 3014 Beef Cattle Management

Prerequisite: AGAS 1014 and AGAS 2084 or consent of instructor.

A study of practices in management of beef cattle including breeding, feeding, care and marketing, with emphasis on production in the South. Lecture three hours, laboratory two hours. \$50 laboratory fee.

AGAS 3021 Livestock Selection and Evaluation

Offered: Fall.

Prerequisite: AGAS 1014 and AGAS 2084, or consent of instructor.

This course is offered as a study in livestock selection according to desirable characteristics for cattle, swine, sheep, goats, and poultry. Evaluation criteria are presented according to industry standards for species' breeds and expected market production. Students will be expected to develop safe handling practices with live animals. \$20 laboratory fee.

AGAS 3104 Swine Management

Prerequisite: AGAS 1014 and AGAS 2084 or consent of instructor.

A study of current practices during the farrowing, growing, and finishing phases of swine production. Topics covered include housing, feeding, scheduling, reproduction, disease control, and waste disposal. Lecture three hours, laboratory two hours. \$50 laboratory fee.

AGAS 3113 Light Horse Production

Prerequisite: AGAS 1014 or consent of instructor.

A study of breeding, feeding, management, and disease control practices in light horse production.

AGAS 3303 Poultry Management

Prerequisite: AGAS 1014 or consent of instructor.

A study of the management practices involved in the various phases of the production of eggs, broilers, turkeys, and breeders.

AGAS 3343 Regulatory Affairs of the Food Industry

Prerequisite: AGAS 1014 and junior standing or consent of instructor.

Regulatory Affairs of the Food Industry course is designed to offer a combination of theory and practical training for students in the field of food regulatory affairs. In this field, rapidly evolving regulations and expansion of international markets create an increasing need to train students in the implementation of regulatory guidelines, industry's compliance with regulations, and the regulatory strategies of companies looking to create a sustainable competitive advantage in the food industry.

AGAS 3933 Animal Breeding and Genetics

Offered: Fall Prerequisites: AGAS 3004 and BIOL 1014 or higher level biology with laboratory, or consent of instructor.

Basic principles of Mendelian and quantitative genetics as they apply to the improvement of farm animals. Selection, inbreeding, crossbreeding and their application to the improvement of beef cattle, dairy cattle, swine, horses and poultry as well as the genetic control of coloration and defects in cattle and horses are included.

AGAS 4203 Livestock and Poultry Nutrition

Prerequisite: AGAS 1014, AGAS 2084, CHEM1113, CHEM 1111, or any higher level chemistry with laboratory, or consent of instructor.

Digestion, absorption of nutrients, and metabolism of farm animals. Includes a study of the requirements for maintenance, growth, activity, and reproduction of ruminants and non-ruminants.

AGAS 4403 Poultry and Livestock Disease

Prerequisite: Junior standing or consent of the instructor.

A study of the diseases of poultry and livestock, particularly those common to Arkansas and surrounding states. Emphasis will be placed on the recognition of the disease and methods to control and/or prevent the disease.