ANIMAL SCIENCE • ANSC

1011 Introduction to Animal Science (3) F,S Science and production of beef cattle, sheep, swine, and horses; their role in American agriculture.

2001 Farm Unit Internship (1) F,S,Su Prereq.: ANSC 1011 and consent of department head. 3 hrs. work experience. May be taken for a max. of 5 sem. hrs. of credit, one each in beef, horse, pork, sheep, swine, and meat. Pass-fail grading. Supervised work experience with animal behavior, vocational management skills, and livestock handling.

2060 Companion Animal Management (3) Care, feeding, breeding, health, behavior, and management of companion animals; emphasis on dogs and cats; opportunities in the pet-related fields and industries.

2133 Growth and Development of Livestock (3) S 2 hrs. lecture; 2 hrs. lab. Cell, tissue, and body growth, development, and composition; patterns of tissue deposition in livestock; control and modification of normal and abnormal growth; evaluation and measurement of composition of beef, sheep, swine, and horses.

3033 Elements of Live Animal and Carcass Evaluation (3) F 1 hr. lecture; 4 hrs. lab. Basic principles and techniques involved in evaluation of meat animals and their carcasses.

3034 Advanced Live Animal and Carcass Evaluation (3) S Prereq.: ANSC 3033. 1 hr. lecture; 4 hrs. lab.

3051 Animal Science Problems (1-6) F,S,Su Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. of credit. Directed individual study of a problem in biotechnology, nutrition, meats, reproduction, breeding and genetics, herd health, or marketing of farm animals.

3053 Meats (3) F 2 hrs. lecture; 2 hrs. lab. Livestock and meat industry relationship; live animal and carcass comparison, slaughtering, processing, identification, and utilization of meat and meat products.

4001 Parasite Effects on Animal Performance (2) F Prereq.: ANSC 4009 or equivalent. 1 hr. lecture; 2 hrs. lab. Endo- and ecto-parasites that affect performance of domestic animals and birds.

4009 Animal Nutrition (3) F Prereq.: CHEM 2060 or equivalent. Basic principles of nutrition including chemical composition of feedstuffs, digestion, metabolism, and functions and values of nutrients.

4018 Principles of Animal Genetics (4) F Prereq.: AGRI 2072 and EXST 4001; or equivalent. 3 hrs. lecture; 2 hrs. lab. Concepts of animal breeding and genetics as they relate to farm livestock.

4040 Quality Assurance in the Food Industry (4) S See DARY 4040.

4045 Reproductive Physiology of Farm Animals (3) F See DARY 4045.

4050 Animal Biotechnology (3) F Prereq.: at least 8 hrs. of biological sciences. Recent developments in animal biotechnology; development of methods to increase the efficiency of growth, reproduction, and lactation; improvement of resistance to disease and stress.

4060 Contemporary Issues in the Animal Sciences (3) Prereq.: ANSC 1011 or equivalent. Discussion and evaluation of contemporary issues and policies related to animal biology and agriculture; development of reasoning and interpersonal skills; preparation of subject matter for distribution to the public.

4071 Tropical Livestock Husbandry (3) F See DARY 4071.

4081 Swine Production (3) S-E Prereq.: credit or registration in ANSC 4009 or DARY 3010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Management practices of swine; reproduction, nutrition, diseases and other aspects of production.

4084 Beef Cattle Production (3) S Prereq.: DARY 3010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Management practices of beef cattle; reproduction, breeding, feeding, marketing, herd health, and other aspects of production in the south.

4086 Small Ruminant Production (3) S-O Prereq.: DARY 3010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Theory and practice of management, breeding, and feeding of sheep and goats for production under southern conditions.

4088 Horse Production (3) S Prereq.: ANSC 1011; 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Theory and practice of raising horses; conformation and selection; nutrition, reproduction, breeding, and production in the south.

4092 Animal Science Proseminar (1) F,S Nutrition, animal breeding and production, and meat processing and preservation.

4094 Meat Technology (3) S-E Prereq.: ANSC 3053; and BIOL 2083 or equivalent. 2 hrs. lecture; 2 hrs. lab.

4095 Reproductive Physiology and Management of Zoo, Laboratory, and Companion Animals (4) S-E Prereq.: basic course in biology or zoology; and ANSC 4045 or equivalent. 5 hrs. lecture; 2 hrs. lab. Field trips are required. Reproductive biology of zoo, laboratory, and companion animals, with emphasis on breeding management.

7001 Experimental Methods (2) F Prereq.: credit or registration in EXST 7004 or equivalent. Scientific methods applied to animal science.

7006 Advanced Animal Genetics (3) F-O Prereq.: DARY 7004 or equivalent. Application of genetic principles and theory to farm livestock populations.

7030 Energy in Nutrition (3) F Prereq.: credit in BIOL 4087 or equivalent. Energy-supplying nutrients and their metabolism; energy balance; measuring food energy needs; dietary density; energy restriction and related topics.

7050 Advanced Animal Physiology and Laboratory Techniques (4) F-E Prereq.: consent of instructor. 3 hrs. lecture; 2 hrs. lab. Physiological processes relating to domestic animal homeostasis and their interaction with production; current laboratory techniques.

7051 Advanced Physiology of Reproduction (3) S-O Prereq.: ANSC 4045 or DARY 4045. Processes of reproduction in farm animals.

7052 Biotechnology of Gamete and Embryo Physiology and Micromanipulation (4) S Prereq.: ANSC 4045 or equivalent. 3 hrs. lecture; 2 hrs. lab. Procedures for manipulation of mammalian gametes in vitro and general biological techniques; emphasis on application to biological research.

7061 Research in Animal Science (1-6) F,S,Su Prereq.: consent of department head. May be repeated for credit; max. credit of 6 hrs. for M.S. degree and 9 hrs. for Ph.D. degree. Research in animal nutrition, breeding, and production; physiology of reproduction, meat technology.

7075 Advanced Food Preservation (4) See FDSC 7075.

7093 Seminar (1) F,S May be taken for a max. of 4 hrs. of credit.

7094 Seminar in Nutrition (1) S Same as DARY 7094, FDSC 7094, HUEC 7094, PLSC 7094. May be taken for a max. of 2 hrs. of credit. Prereq.: DARY 7091, FDSC 7075, HUEC 7010, PLSC 7091 or equivalent or previous slide (not poster) presentation at a professional meeting.

7900 Special Topics in Animal Science (1-6) F,S,Su Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Special topics of interest in animal science.

8000 Thesis Research (1-12 per sem.) “S”/“U” grading.

9000 Dissertation Research (1-12 per sem.) “S”/“U” grading.