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. 1 hr. experience. May be taken for a max. of 5.5 sem. hrs. of credit, one each in beef, horse, sheep, swine, and meat units. Pass-fail grading.
2002 Companion Animal Management (3) Care, feeding, breeding, behavior of companion animals and 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 abnormal and normal growth; evaluation and measurement of composition of beef, sheep, swine, and horses.
3033 Elements of 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 Techniques of 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 animal science.
3053 Meat Science (4) F Primer: Meat science literature and introduction to meat industry knowledge; live animal and carcass compar-ison, slaughtering, processing, identification, and utilization of meat and by-products.
3060 Companion Animal Health Maintenance and Disease (3) F Prereq.: ANSC 2060, BIOL 1201 and 1202, VETS 2122 or consent of the department; diagnostic tests and tools used in animal health, epidemiology, clinical findings, diagnosis, prevention and treatment of animal diseases and disorders, zoonotic disease transmission, and prevention.
3070 Small Animal Anatomy and Physiology (3) S Prereq.: ANSC 1011, 1020, Anatomy and physiology of small companion animals and exotic species.
4001 Parasite Effects on Animal Performance (2) F Prereq.: ANSC 2060 or equivalent. 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.: DARY 2072 or BIOL 2153 and EXST 2201; 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 4045.
4042 Reproductive Physiology of Farm Animals (3) S See DARY 4045.
4050 Animal Biotechnology (3) F Prereq.: at least 8 hrs. of biological sciences. Origin of animal biotechnology; development of methods to increase the effi-ciency of growth, production, 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.
4081 Swine Production (3) S-F Prereq.: credit or registration in ANSC 4009 or DARY 3010 or equivalent. 2 hrs. lecture; 1 hr. lab. Animal anatomy, physiology, and psychology of swine or dairy animals; or animal 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, feeding, marketing, herd health, and other aspects of production in the south.
4086 Small Ruminant Production (3) S-F 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 raising horses; conformation and selection; nutrition, reproduction, breeding, and production in the south.
4092 Animal Science Practicum (1) F,S Nutrition, animal breeding and production, and meat processing and preservation.
4094 Meat Technology (3) S-F Prereq.: ANSC 3053; and BIOL 2083 or equivalent. 2 hrs. lecture; 2 hrs. lab. Basic course in animal production physiology and anatomy. 3045 or 4045 or equivalent. 3 hrs. lecture; 2 hrs. lab. Field trips required. 3053 or 4053 or equivalent. Reproductive biology of the laboratory, and companion animals, with emphasis on breeding management.
7001 Experimental Methods (2) F Prereq.: credit or registration in F F 1 hr. lecture; 4 hrs. lab. Basic experimental methods applied to animal science.
7006 Advanced Animal Genetics (3) F-F Prereq.: DARY 4004 or equivalent. 3 hrs. lab. Advanced principles and techniques of quantitative genetics and analysis of specific populations.
7050 Advanced Animal Physiology and Laboratory Techniques (3) F-F Prereq.: credit or registration in F F 1 hr. lecture; 2 hrs. lab. Physiological processes relating to domestic animal homeostasis and their interaction with production; current laboratory techniques.