animal behavior, including physiology of behavior, communication, social behaviors, and others. S, SSI.

3401. Reproductive Physiology (4). Prerequisite: ANSC 2202 and 2306 or 3405. Physiological approach to reproductive processes in farm animals. Study includes anatomy, endocrinology, estrous cycles, egg and sperm physiology, fertilization, gestation, parturition, and artificial insemination. F.

3402. Animal Breeding and Genetics (4). Prerequisites: ANSC 1401, MATH 1320 or higher. Fundamental principles of cellular, population, and quantitative genetics applied in selection and mating systems to make genetic improvements in farm animals. F.

3403. Selection, Care, Processing, and Cooking of Meats (4). A general course in selecting, preserving, inspecting, grading, and cooking meats. S.

3404. Consumer Selection and Utilization of Meat Products (4). A course for nonmajors who desire general knowledge of meat purchasing, selection, and cooking. Aspects of hazard analysis, food safety, and sanitation will be studied. F, SS.

3405. Advanced Physiology of Animals (4). Prerequisites: ANSC 2202 and honors student status or consent of instructor. Physiology of domestic animals for advanced or honors students. Lecture and laboratory emphasizing whole animal physiology. S, even years.

4000. Internship (V1-12). Prerequisite: Consent of instructor. A supervised study course providing in-service training and practice in the various areas of animal science. F, S, SS.

4001. Special Problems in Animal Science (V1-6). Prerequisite: Approval of instructor. Individual investigation. May be repeated for credit. F, S, SS.

4202. Artificial Insemination of Livestock (2). Prerequisites: ANSC 3401 and consent of instructor. Anatomy and physiology of reproductive organs, palpation, insemination techniques, handling frozen semen, estrous detection, synchronization of estrus and ovulation, and pregnancy determination. Intersession.

4301. Equine-Assisted Mental Health (3). An introduction to therapeutic intervention using horses to address behavioral, relational, and emotional issues for clients. S.

4305. Therapeutic Riding (3). Skills and theories of therapeutic riding, including lesson plan development, knowledge of disabilities, and groundwork for instructor certification. F.

4306. Equine Feeding and Exercise Management (3). Prerequisite: ANSC 2305 or consent of instructor. Students will investigate exercise physiology concepts and nutritional requirements related to the feeding and care of horses.

4400. Meat Science and Muscle Biology (4). Prerequisite: ANSC 3403 or consent of instructor. Study of meat components, their development, and their effect on meat characteristics and processing properties. Emphasis on industry issues. F.

4401. Swine Production (4). Prerequisite: ANSC 3301 Understanding pig biology, management of the pig's environment and genetics to maximize profits. Include genetics, nutrition, reproduction, housing, herd health, and management practices. Laboratory and field trips. F. (Writing Intensive)

4402. Horse Production (4). An advanced study of equine anatomy, reproductive physiology, nutrition, disease, and management. S. (Writing Intensive)


4404. Processed and Cured Meat Science (4). Introduction to manufactured meat products and muscle ingredients, processing technologies, storage conditions, and stability of cured muscle foods. F.

4405. Beef Cattle Stocker and Feedlot Management (3). Prerequisite: ANSC 3301. Stocker and feedlot cattle production with focus on management, procurement and marketing, animal health and nutrition. Field trips to feedlots. F.

4406. Sheep and Goat Production (4). Prerequisite: ANSC 3301. Sheep, goat, wool, and mohair production management and marketing practices. Field trips to ranches and feedlots. S. (Writing Intensive)