

# ANIMAL SCIENCE (ANSC)

---

**ANSC 0419** Introd to Animal Science **0 SCH (0)**

**ANSC 1211** Preparation for Animal Ag **2 SCH (2-0)**

Key issues and trends impacting care and use of livestock, and domestic and companion animals. Career opportunities in the animal science profession.

**ANSC 1419** Introd to Animal Science **4 SCH (3-2)**

Basic scientific fundamentals of livestock production, including feeding and nutrition, reproductive physiology, selective breeding, health, management and marketing of major and minor species.

Fee: \$5.00

**ANSC 2307** Prin of Feeds and Feeding **3 SCH (3)**

Chemical composition of feeds, utilization of nutrients, characteristics of feedstuffs and feed usage. Prerequisites: ANSC 1419, MATH 1314, CHEM 1311 plus CHEM 1111.

**ANSC 2310** Livestock Mgmt Techniques **3 SCH (1-4)**

Application of animal handling and management techniques for major and minor livestock species including behavior of livestock species relevant to handling, methods of restraint and blood sampling. Prerequisites: ANSC 1419 and sophomore standing.

**ANSC 3302** Swine Management **3 SCH (3)**

Systems of swine management including breeding, feeding and various management problems with their solutions. Prerequisites: ANSC 2307 and ANSC 2310.

**ANSC 3304** Beef Management **3 SCH (3)**

Systems of beef management including breeding, feeding and various management problems with their solutions. Prerequisites: ANSC 2307 and ANSC 2310.

**ANSC 3305** Mkt Class and Grade Livestock **3 SCH (2-2)**

Classifications and judging of livestock; factors affecting classification, grading and valuing and procedures of marketing livestock. Prerequisites: 9 semester hours of Agriculture including ANSC 1419.

**ANSC 3306** Equine Management **3 SCH (3-0)**

Principles of equine management, including conformation, nutrition, reproduction, health, and general management practices. Prerequisites: ANSC 2307 and ANSC 2310.

**ANSC 3308** Sheep and Goat Management **3 SCH (3-0)**

Systems of sheep and goat management for meat, fiber and milk including breeding, feeding and various management problems and their solutions. Prerequisite: 9 semester hours of animal science including ANSC 1419.

**ANSC 3309** Meat Preparation and Eval **3 SCH (2-3)**

Market class determination, live animal evaluation; slaughter, cutting, curing, carcass evaluation and grading. Prerequisites: ANSC 1419 and junior standing.

Fee: \$5.00

**ANSC 3313** Repro Physiol of Dom Animals **3 SCH (2-2)**

Comparative anatomy and physiology of the male and female reproductive systems, endocrinology, gestation, parturition and lactation, management techniques, performance traits and diseases. Prerequisites: ANSC 1419, BIOL 1308 and 1108, CHEM 1311 plus CHEM 1111.

Fee: \$5.00

**ANSC 3335** Animal Breeding and Genetics **3 SCH (3-0)**

Introduction to genetic concepts and principles of livestock improvement involving gene function, molecular genetics, gametogenesis, Mendelian inheritance, selection and breeding systems. Prerequisite: ANSC 1419.

**ANSC 3336** Artificial Breed of Livestock **3 SCH (2-3)**

Study of artificial insemination techniques and reproductive technologies. Application of artificial insemination and pregnancy diagnosis techniques in cattle, goats and swine. Prerequisites: ANSC 1419, ANSC 3313.

Fee: \$5.00

**ANSC 3390** Special Topics in Animal Sci **3 SCH (0-0-3)**

Selected topics not currently available in existing courses. May be repeated once under different topic. Prerequisite: junior standing.

**ANSC 3995** Internship **1-9 SCH (0-0-1-9)**

Supervised and planned work experience under college guidelines in an agriculture enterprise or agency setting. Practical application of knowledge and skills of major subject area without classroom consultation, but with formal evaluation. May be repeated for a maximum of nine semester hours toward degree; may not count toward minor. Prerequisite: written consent of adviser and dean.

**ANSC 4301** Growth Physiol of Livestock Sp **3 SCH (3-0)**

Study of the principles of growth and its measurement from the cell to the tissue to the entire animal. Prerequisites: ANSC 1419 and CHEM 2421 or CHEM 3323.

**ANSC 4303 Anat and Phys of Dom Animals 3 SCH (3-0)**

Introduction to the study of functional anatomy and fundamental physiological processes of domestic animals. Prerequisites: ANSC 1419 and CHEM 2421 or CHEM 3323.

**ANSC 4305 International Animal Agric 3 SCH (3)**

Global contributions of animal agriculture involving traditional and nontraditional species on the welfare of human development. Includes a review of selected literature papers and a study of alternative livestock production systems especially appropriate for developing countries. Prerequisite: junior or senior standing.

**ANSC 4307 Animal Nutrition 3 SCH (3-0)**

Chemical composition of the animal, functions of nutrients, digestion, metabolism, physiological effects of feed additives. Prerequisites: ANSC 1419, CHEM 2421.

**ANSC 4308 Statistics in Agriculture 3 SCH (3-0)**

Basic and practical overview of agricultural experimentation, which includes an understanding of hypothesis testing, sampling, probability, and analysis and interpretation of agricultural research data. Prerequisite: junior/senior standing.

**ANSC 4385 Experimental Techniques 3 SCH (2-3)**

Laboratory exercises and demonstrations of current biotechniques used in animal research and their application to management of animal and wildlife species. Prerequisite: 9 semester hours of agriculture or approval of instructor.

**ANSC 4395 Problems in Animal Science 1-3 SCH (1-3)**

Literature review, laboratory field problem. May be repeated for a total of 6 semester hours, only 3 hours may count toward a minor. Prerequisite: approval of supervising professor.