

ANIMAL SCIENCES (ANSC)

Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

ANSC 801 - Physiology of Reproduction

Credits: 4

Comparative aspects of embryology, anatomy, endocrinology, and physiology of reproduction. Lab.

ANSC 808 - Ruminant Nutritional Physiology

Credits: 3

Anatomy of the ruminant gastrointestinal tract, physiological factors related to rumen function, and microbial and whole-body metabolism of carbohydrates, protein, and lipids. Prereq: general microbiology or equivalent.

ANSC 810 - Dairy Nutrition

Credits: 4

Feeding and related management of dairy cows, nutrients and their use, digestive anatomy, physiology, energy systems, forage quality and conservation methods, metabolic disorders, ration balancing. Prereq: principles of nutrition; nutritional biochemistry or equivalent, permission.

ANSC 815 - Physiology of Lactation

Credits: 4

Examines the biological and biochemical influences of the lactation process. Emphasis on the physiological effects of environments, hormones, and nutrition on milk synthesis and secretion, mammary physiology, and maternal response. Prereq: physiology of reproduction, permission.

ANSC 818 - Mammalian Physiology

Credits: 4

Advanced study of the systems that control mammalian functions with emphasis on cellular and molecular mechanisms. Includes the nervous, muscular, cardiovascular, renal, gastrointestinal, and endocrine systems. Prereq: BMS 501 or BMS 503-504; GEN 604. Permission required.

ANSC 824 - Reproductive Management and Artificial Insemination

Credits: 4

Focus on goals and fundamentals of reproductive management of horses, dairy and livestock animals, and, through experience, development of competency in performing modern breeding techniques for equine or bovine reproduction. Permission required. Special fee. Lab.

ANSC 827 - Advanced Dairy Management I

Credits: 4

Advanced management evaluation of milking procedures, reproduction, nutrition, mastitis, and calf and heifer management. Prereq: principles of nutrition, permission.

ANSC 828 - Advanced Dairy Management II

Credits: 4

Advanced management evaluation of dairy cattle, housing, milking equipment, milk quality, record keeping, herd health, financial, personnel management, environmental issues. Visits to farms in the area to provide critical assessments of dairy farm businesses. Prereq: advanced dairy management I, permission. Special fee.

ANSC 895 - Investigations

Credits: 1-4

Investigations in genetics, nutrition, management, diseases, histology, equestrian management/agribusiness, physiology, cell biology, microbiology, dairy management, or teaching experience. Prereq: permission.

Repeat Rule: May be repeated for a maximum of 4 credits.

ANSC 899 - Master's Thesis

Credits: 1-6

Master's students must enroll for a total of 6 credits of this course. Students may enroll in 1-6 credits per semester. Cr/F.

Repeat Rule: May be repeated for a maximum of 6 credits.

ANSC 900 - Contemporary Topics in Animal, Nutritional, and Biomedical Sciences

Credits: 1

An informal forum for graduate students to gain experience in evaluating the current literature of a contemporary topic. (Also offered as NUTR 900.) Offered both fall and spring semesters. Cr/F.

Repeat Rule: May be repeated for a maximum of 2 credits.

Equivalent(s): NUTR 900

ANSC #913 - Contemporary Topics in Immunobiology

Credits: 2

Topical lectures, seminars, and assigned reading emphasizing recent advances in immunology. May be repeated for a maximum of 4 credits. (Offered in alternate years.)

Repeat Rule: May be repeated for a maximum of 4 credits.

ANSC 995 - Non-thesis Investigations in Animal Science

Credits: 1-4

Advanced investigations in a research project, exclusive of thesis project. Elective only after consultation with the instructor. Offered both fall and spring semesters.

Repeat Rule: May be repeated for a maximum of 4 credits.

ANSC 999 - Doctoral Research

Credits: 0

Cr/F.