

Animal Science (ANSC)

ANSC 5305 Graduate Research Project 3 SCH (3)

Designed for project option students and requires completion of research project. Prerequisite: departmental approval. May be repeated for a maximum of 6 semester hours.

ANSC 5306 Thesis 3 SCH (3)

Designed for thesis option students. The course requires completion of thesis research. Prerequisite: departmental approval. May be repeated for maximum of 6 semester hours.

ANSC 5307 Physiol of Mammalian Reprod 3 SCH (3-0)

Comprehensive in-depth study of reproductive physiology and endocrinology with primary emphasis on domestic and laboratory animals. Prerequisites: ANSC 3313/BIOL 3408 or equivalent, and 9 semester hours of chemistry/biochemistry.

ANSC 5333 Mammalian Endocrinology 3 SCH (3-0)

Survey of the endocrine system including endocrine glands and hormones which regulate energy metabolism, water and electrolyte balance, growth and reproduction. Prerequisites: ANSC 4303 or equivalent and 9 semester hours of chemistry/biochemistry.

ANSC 5336 Envir Physiology of Animals 3 SCH (3-0)

Principles of domestic animal and wildlife adaptation to tropical and sub-tropical environments. Areas of emphasis will include bioclimatology, physiological temperature regulation mechanisms and nutritional, reproductive and genetic adaptation. Prerequisite: ANSC 4303 or equivalent.

ANSC 5337 Ruminant Nutrition and Physiol 3 SCH (3-0)

Anatomy, physiology, microbiology and nutrient metabolism of the rumen. Prerequisites: ANSC 4307 and CHEM 2421.

ANSC 5338 Monogastric Nutrition 3 SCH (3-0)

Digestion and absorption of nutrients in monogastrics to include human, poultry and swine. Emphasis on vitamin and trace mineral nutrition. Prerequisites: ANSC 4307 and CHEM 2421 or equivalent.

ANSC 5351 Advn Range Livestock Productn 3 SCH (3-0)

This is an interdisciplinary course studying modern beef cattle production, breeding genetics, reproductive physiology, nutrition and economics.

ANSC 5390 Advanced Studies in Animal Sci 3 SCH (3-0)

Material offered is determined by the needs of the students. Laboratory and lecture vary according to the subject needs. May be repeated once under a different topic.

ANSC 5395 Advanced Probs in Animal Sci 1-3 SCH (1-3)

Independent work that may include a laboratory or field problem. Variable credit dependent upon the problem; may be repeated for a total of 6 semester hours. Prerequisite: approval of a staff member who will supervise the problem.

ANSC 5399 Research Topics 1-9 SCH (1-9)

This course is specifically designed for Plan I students. Required during the research, data analysis, and initial writing stage. Grading for the course will be S for satisfactory or U for unsatisfactory.

ANSC 6335 Quantitative Genetics 3 SCH (3-0)

Quantitative methodologies for altering the genetic properties and/or achieving genetic progress in domesticated and natural animal and plant populations. Application of genetic software packages.