

# ANIMAL SCIENCE (ANSC)

## **ANSC 437G Physiology/Reproduction 2 Hours**

Endocrinology and physiology of reproductive systems; anatomical physiology and biochemical bases of reproduction, artificial insemination, synchronized estrus and related topics are presented.

**Prerequisite(s):** BIOL 120

**Corequisite(s):** ANSC 438G

*Recent Term(s) Offered: fall 2017; fall 2018*

## **ANSC 438G Physiology/Reproduction Lab 1 Hour**

A laboratory course correlated with ANSC 437G. Laboratory, two hours.

**Corequisite(s):** ANSC 437G

*Recent Term(s) Offered: fall 2017; fall 2018*

## **ANSC 446G Animal Breeding 2 Hours**

Application of genetic and statistical principles of breeding and improvements of farm animals; the role of selection in changing populations; the effects of different mating systems upon improvement of farm animals are investigated.

**Prerequisite(s):** ANSC 140 and BIOL 120

**Corequisite(s):** ANSC 447G

*Recent Term(s) Offered: None*

## **ANSC 447G Animal Breeding Lab 1 Hour**

A laboratory course correlated with ANSC 446.

**Corequisite(s):** ANSC 446G

*Recent Term(s) Offered: None*

## **ANSC 448G Animal Feeds and Feeding Practices 4 Hours**

Livestock feeds and their nutrients; functions of and requirements for nutrients; evaluation of feeds; feeding practices and formulation of rations for all classes of livestock are included.

**Prerequisite(s):** ANSC 345 or permission of instructor

*Recent Term(s) Offered: spring 2016; spring 2017*

## **ANSC 449G Lab Methods Animal Nutrition 3 Hours**

Laboratory methods for determining major minerals and vitamins in feeds, proximate analysis of feeds, products of fermentation, feed residues and contamination.

**Prerequisite(s):** ANSC 448

*Recent Term(s) Offered: None*

## **ANSC 475G Selected Topics 1-3 Hours (repeatable max of 6 hrs)**

Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit.

**Prerequisite(s):** permission of instructor

*Recent Term(s) Offered: None*

## **ANSC 533 Physiology of Lactation 3 Hours**

Anatomy of the mammary gland, hormonal control of mammogenesis, initiation and maintenance of milk secretion, factors affecting level and composition of milk, synthesis of milk.

**Prerequisite(s):** ANSC 344

*Recent Term(s) Offered: None*

## **ANSC 545 Ruminant Nutrition 3 Hours**

Rumen development and function, products of fermentation, nutrient requirements, absorption and metabolism, symptoms of deficiency and toxicity.

**Prerequisite(s):** (ANSC 345 and BIOL 446) or equivalent or permission of instructor

*Recent Term(s) Offered: None*

## **ANSC 546 Advanced Animal Breeding 3 Hours**

Application of population genetics to the economic improvement of farm animals, phenotypic and genetic relationships, role of selection in changing populations, formulation and application of breeding plans.

**Prerequisite(s):** (ANSC 446 and AGRI 528) or permission of instructor

*Recent Term(s) Offered: None*

## **ANSC 547 Advanced Animal Nutrition 3 Hours**

The nutrient requirements of the monogastric animals, structure, metabolism and function of each nutrient class, interrelationship of the nutrient classes, deficiency and toxicity symptoms.

**Prerequisite(s):** (ANSC 345 and BIOL 446) or equivalent or permission of instructor

*Recent Term(s) Offered: summer 2018*

## **ANSC 675 Advanced Topics in Animal Science 1-3 Hours**

No course description is available

*Recent Term(s) Offered: spring 2017; fall 2017*