ANIMAL SCIENCES (AN SCI)

AN SCI 1 — COOPERATIVE EDUCATION/CO-OP IN ANIMAL SCIENCES
1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count toward credit in another course. Enroll Info: None
Requisites: Consent of instructor
Repeatable for Credit: No
Last Taught: Spring 2019

AN SCI/DY SCI 101 — INTRODUCTION TO ANIMAL SCIENCES
4 credits.

Anatomy physiology, nutrition, genetics, reproduction, marketing, meats and management of dairy and beef cattle, swine, sheep, poultry and horses. Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI 110 — ANIMAL HANDLING
1 credit.

Hands-on course that provides an understanding of livestock handling techniques, proper restraint, administering injections, and drawing blood samples. Learn about animal response to human presence and the effect of facility design on animal behavior. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Spring 2017

AN SCI 150 — CAREER ORIENTATION ANIMAL/POULTRY SCIENCES
1 credit.

An introduction to resume preparation, student employment, internships, and graduate and professional school programs with presentations by numerous graduates who discuss their career path following a B.S. degree in Animal Science or Poultry Science. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI 200 — THE BIOLOGY AND APPRECIATION OF COMPANION ANIMALS
3 credits.

A systematic coverage of many of the animals (including birds) that humans keep as their social companions. The classification, nutritional requirements, environmental considerations, reproductive habits, health, legal aspects and economics of companion animals and their supportive organizations. Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Summer 2021

AN SCI 240 — ANCIENT ANIMALS AND PEOPLES
3 credits.

Provides an introduction to human and animal relationships from prehistory to the present. Examines how animals have influenced social and economic structures of past societies, with a focus on the advent of domestication. Explores the cultural and economic changes that domestication has had on human societies, as well as the behavioral, genetic, and morphological changes that this process had on once wild animals. Emphasizes the methods used to retrace human-animal interactions, drawing on cross-cultural examples from anthropology, ethnozoology, archaeology, history, and genetics. Enroll Info: None
Requisites: None
Course Designation: Breadth - Either Biological Science or Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Summer 2021

AN SCI 245 — ANIMAL WELFARE
3 credits.

Explores animal welfare topics from the animal's perspective. Analyzes contemporary welfare issues and policies based on our scientific understanding of the experiences of animals. Emphasizes farmed animals, but also draws on examples from zoo, lab, and companion animals. Enroll Info: None
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Summer 2021

AN SCI 289 — HONORS INDEPENDENT STUDY
1-2 credits.

Honors research work under direct guidance of a faculty member in an area of Animal Sciences. Students are responsible for arranging the work and credits with the supervising instructor. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Honors - Honors Only Courses (H)
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2007
AN SCI 299 — INDEPENDENT STUDY
1-3 credits.

Individual introductory to intermediate work under direct guidance of a faculty member in an area of Animal Sciences. Students are responsible for arranging the work and credits with the supervising instructor. Enroll Info: None
Requisites: Consent of instructor
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

AN SCI/FOOD SCI 305 — INTRODUCTION TO MEAT SCIENCE AND TECHNOLOGY
4 credits.

Application of biological, technological, and economical principles to muscle and related tissue utilized for food. Enroll Info: None
Requisites: (ZOOLOGY/BIOLOGY/BOTANY 152 or ZOOLOGY/BIOLOGY 101 and 102) and (CHEM 103, 109, or 115) or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/DY SCI/NUTR SCI 311 — COMPARATIVE ANIMAL NUTRITION
3 credits.

Nutrients and their source, assimilation, function and requirement. Enroll Info: None
Requisites: BMOLCHEM 314, CHEM 341, 343, or BIOCHEM 501
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI 314 — POULTRY NUTRITION
3 credits.

Provides a conceptual understanding of nutrient requirements for optimal growth and production of commercial poultry species. The use of computer programming for feed formulation is emphasized. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Summer 2019

AN SCI 315 — POULTRY ENTERPRISE MANAGEMENT
3 credits.

Fundamental business and economic principles and practices for successful poultry production with emphasis on problem solving in flock management. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Summer 2019

AN SCI/DY SCI 320 — ANIMAL HEALTH AND DISEASE
3 credits.

Provides an introduction to and exploration of the interconnectivity between factors that affect health and disease and the central role of the immune system using infectious disease in animals as a key focus. Explores principal causes and identification of animal diseases, common diseases of farm animals, zoonoses and public health, disease prevention and management including biosecurity measures and host immune responses. Fosters the appreciation for the translatability and universality of knowledge between human and animal health and disease. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY/BOTANY 152, (ZOOLOGY/BIOLOGY 101 and 102) or (BIOCORE 382, 383, and 384) or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2016

AN SCI/FOOD SCI 321 — FOOD LAWS AND REGULATIONS
1 credit.

Food laws and regulations, regulatory and commerical grading standards used in the food industry. Enroll Info: None
Requisites: Junior standing
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/BOTANY/MICROBIO 335 — THE MICROBIOME OF PLANTS, ANIMALS, AND HUMANS
3 credits.

Examination of the structure and function of microbial communities that live inside and on host organisms (plants, animals, and humans). Introduction to general concepts of the microbiome and microbiota, and their relationship to host nutrition, health, and disease. Enroll Info: None
Requisites: MICROBIO 303
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/DY SCI 361 — INTRODUCTION TO ANIMAL AND VETERINARY GENETICS
2 credits.

The molecular basis for inheritance of monogenic and polygenic traits related to animal disease and production. An introduction to the principles of improving animal health and performance by selection and mating systems in companion animals, horses, livestock, and poultry. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY/BOTANY 152, (ZOOLOGY/BIOLOGY 101 and 102) or (BIOCORE 382, 383, and 384) or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021
AN SCI/DY SCI 362 — VETERINARY GENETICS
2 credits.

The genetic basis for predisposition to disease or resistance to disease in livestock and companion animal species. Genetic defects, their discovery, diagnosis and treatment. Enroll Info: None

Requisites: DY SCI/AN SCI 361

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2021

AN SCI/DY SCI 363 — PRINCIPLES OF ANIMAL BREEDING
2 credits.

Application of the principles of quantitative genetics to the improvement of livestock and poultry; breeding value estimation and selection techniques; effects of inbreeding and hybrid vigor; crossbreeding systems. Enroll Info: None

Requisites: DY SCI/AN SCI 361

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2021

AN SCI/DY SCI 370 — LIVESTOCK PRODUCTION AND HEALTH IN AGRICULTURAL DEVELOPMENT
3 credits.

Physical, biological and social nature of animal agriculture systems and their improvement in developing countries; analysis of the state of livestock research and development in the developing countries and the world role of U.S. animal agriculture. Enroll Info: None

Requisites: DY SCI/AN SCI 101, ZOOLOGY/BIOLOGY/BOTANY 151, ZOOLOGY/BIOLOGY 101, or (BIOCORE 381 and 382), or graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Sustain - Sustainability

Repeatable for Credit: No

Last Taught: Fall 2020

AN SCI/DY SCI 373 — ANIMAL PHYSIOLOGY
3 credits.

Covers physiological processes that regulate the body and the anatomy and function of different physiological systems. Includes interactions between organ systems, analysis of a single organ system from the molecular to the organismal, and comparisons and contrasts of organ systems among different domestic animal species. Enroll Info: None

Requisites: ZOOLOGY/BIOLOGY 101 or (BOTANY/BIOLOGY/ ZOOLOGY 151 and BOTANY/BIOLOGY/ZOOLOGY 152)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2021

AN SCI 375 — SPECIAL TOPICS
1-4 credits.

Various topics in Animal Science of current interest to undergraduate students. Enroll Info: None

Requisites: None

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2021

AN SCI 399 — COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION
1-8 credits.

An internship under guidance of a faculty or instructional academic staff member in Animal and Dairy Sciences and internship site supervisor. Students are responsible for arranging the work and credits with the faculty or instructional academic staff member and the internship site supervisor. Enroll Info: None

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2021

AN SCI 400 — STUDY ABROAD IN ANIMAL SCIENCES
1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. Enroll Info: None

Requisites: None

Repeatable for Credit: Yes, unlimited number of completions

AN SCI/DY SCI 414 — RUMINANT NUTRITION & METABOLISM
3 credits.

Integrates nutritional and biochemical concepts to understand digestive and metabolic processes in dairy and beef cattle, which are then quantitatively represented to predict and manipulate production and health outcomes. Enroll Info: None

Requisites: DY SCI/AN SCI/NUTR SCI 311, (BIOCHEM 301 or 501) or graduate/professional standing

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2020

AN SCI 415 — APPLICATION OF MONOGASTRIC NUTRITION PRINCIPLES
2 credits.

Nutrient requirements for growth and production of monogastric animals. Discuss concepts of establishing nutrient requirements and feeding strategies. Laboratory exercises are designed to develop problem solving skills required for the assessment of nutritional adequacy and economical soundness of feeding programs. Enroll Info: None

Requisites: DY SCI/AN SCI/NUTR SCI 311, (BIOCHEM 301 or 501) or graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2020
AN SCI 431 — BEEF CATTLE PRODUCTION
3 credits.

Application of genetics, systems of mating, physiology, nutrition and economics to the production of beef. Enroll Info: None
Requisites: NUTR SCI/AN SCI/DY SCI 311, DY SCI/AN SCI 361, and (DY SCI/AN SCI 434 or concurrent registration) or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI 432 — SWINE PRODUCTION
3 credits.

Application of research findings in breeding, feeding, management and marketing to modernize production. Lab may include farm visits, practical exercises in testing changes, and "tools" used by producers. Enroll Info: None
Requisites: NUTR SCI/AN SCI/DY SCI 311, DY SCI/AN SCI 361, DY SCI/AN SCI 434, or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/DY SCI 434 — REPRODUCTIVE PHYSIOLOGY
3 credits.

Principles of reproductive physiology, improvement of fertility, and artificial insemination. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY/BOTANY 152, (ZOOLOGY/BIOLOGY 101 and 102) or (BIOCORE 382, 383, and 384) or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI 435 — ANIMAL SCIENCES PROSEMINAR
2 credits.

Methods of assessing information quality are studied. Each student develops an analytical and critical seminar on a topic of personal interest in the animal sciences. Enroll Info: None
Requisites: None
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI/DY SCI/FOOD SCI/SOIL SCI 472 — ANIMAL AGRICULTURE AND GLOBAL SUSTAINABLE DEVELOPMENT
1 credit.

Examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; food security; the role of women in agriculture, and the role of dairy products in a healthy diet. Enroll Info: None
Requisites: None
Course Designation: Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/DY SCI/FOOD SCI/SOIL SCI 473 — INTERNATIONAL FIELD STUDY IN ANIMAL AGRICULTURE AND SUSTAINABLE DEVELOPMENT
2 credits.

Examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; and the role of women in agriculture and the role of dairy products in a healthy diet. Enroll Info: None
Requisites: DY SCI/AN SCI/FOOD SCI/SOIL SCI 472
Course Designation: Sustain - Sustainability
Repeatable for Credit: No

AN SCI 503 — AVIAN PHYSIOLOGY
3 credits.

Principles of organ and system function with emphasis on male and female reproduction, embryonic development and factors affecting hatchability. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Summer 2019

AN SCI 508 — POULTRY PRODUCTS TECHNOLOGY
3 credits.

Procurement, processing and distribution of poultry meat, eggs and derived products; factors affecting quality, including methods of determining quality. Enroll Info: None
Requisites: CHEM 103, 109, or 115
Repeatable for Credit: No
Last Taught: Summer 2019

AN SCI 511 — BREEDER FLOCK AND HATCHERY MANAGEMENT
3 credits.

History of artificial incubation relevant to the U.S. hatching industry. Practices involved in successful incubation of hatching eggs. Embryonic development in birds. Management factors involved in breeder hen production and operating a hatchery. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Summer 2019
AN SCI 512 — MANAGEMENT FOR AVIAN HEALTH
3 credits.

The occurrence, etiology, clinical signs, control and prevention of infectious and noninfectious diseases commonly affecting domestically reared poultry. Instruction in avian necropsy, zoonosis, sanitation and regulation. Enroll Info: None
Requisites: DY SCI/AN SCI 101
Repeatable for Credit: No
Last Taught: Summer 2019

AN SCI/FOOD SCI 515 — COMMERCIAL MEAT PROCESSING
2 credits.

Principles and procedures in the commercial manufacture of processed meat products; sausage manufacturing, curing, smoking, freezing and packaging. Enroll Info: None
Requisites: AN SCI/FOOD SCI 305, FOOD SCI 410, or graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2019

AN SCI/F&W ECOL/ZOOLOGY 520 — ORNITHOLOGY
3 credits.

Introduction to bird biology, ecology, and behavior. Topics include the evolutionary origin of birds and flight, anatomy and physiology, functional morphology, migration, communication, reproductive strategies, ecological adaptations and roles, and biogeographical patterns. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY 101 and 102, ZOOLOGY/BIOLOGY/BOTANY 152, (BIOCORE 381 and 382), or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/F&W ECOL/ZOOLOGY 521 — BIRDS OF SOUTHERN WISCONSIN
3 credits.

Outdoor and indoor labs/lectures emphasizing identification of southern Wisconsin birds by sight and vocalization. Two required Saturday field trips in Southern Wisconsin. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY 101 and 102, ZOOLOGY/BIOLOGY/BOTANY 152, (BIOCORE 381 and 382), or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2019

AN SCI 610 — QUANTITATIVE GENETICS
3 credits.

An advanced approach with emphasis on statistical foundations. Classical theory with extensions to maternal and paternal effects. Selection theory is considered in depth. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/F&W ECOL/ZOOLOGY 521 — BIRDS OF SOUTHERN WISCONSIN
3 credits.

Outdoor and indoor labs/lectures emphasizing identification of southern Wisconsin birds by sight and vocalization. Two required Saturday field trips in Southern Wisconsin. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY 101 and 102, ZOOLOGY/BIOLOGY/BOTANY 152, (BIOCORE 381 and 382), or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/F&W ECOL/ZOOLOGY 521 — BIRDS OF SOUTHERN WISCONSIN
3 credits.

Outdoor and indoor labs/lectures emphasizing identification of southern Wisconsin birds by sight and vocalization. Two required Saturday field trips in Southern Wisconsin. Enroll Info: None
Requisites: ZOOLOGY/BIOLOGY 101 and 102, ZOOLOGY/BIOLOGY/BOTANY 152, (BIOCORE 381 and 382), or graduate/professional standing
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

AN SCI/NUTR SCI 626 — EXPERIMENTAL DIET DESIGN
1 credit.

Discuss nutrient requirements, composition of ingredients used to meet requirements and the mathematical steps involved in diet formulation with emphasis on research animals and human subjects. Enroll Info: None
Requisites: Graduate/professional standing, STATS 301 and (NUTR SCI/BIOCHEM 510 or concurrent enrollment)
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2019

AN SCI 681 — SENIOR HONOR THESIS
2-4 credits.

Individual study for majors completing theses for Honors degrees as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Honors - Honors Only Courses (H)
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI 682 — SENIOR HONORS THESIS
2-4 credits.

Second semester of individual study for majors completing theses for Honors degrees as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Honors - Honors Only Courses (H)
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021
AN SCI 691 — THESIS
2 credits.

Individual study for majors completing theses as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI 692 — THESIS
2 credits.

Second semester of individual study for majors completing theses as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Repeatable for Credit: No

AN SCI 699 — SPECIAL PROBLEMS
1-3 credits.

Individual advanced work in an area of Animal Sciences under the direct guidance of a faculty member. Enroll Info: None
Requisites: Consent of instructor

AN SCI/FOOD SCI 710 — CHEMISTRY OF THE FOOD LIPIDS
2 credits.

Chemical constitution, structures, reactions, stereochernistry of fats, phospholipids, related compounds; methods of isolation, characterization; synthesis; relation of structure to physical properties. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2021

AN SCI/DY SCI 824 — RUMINANT NUTRITIONAL PHYSIOLOGY I
4 credits.

Focuses on rumen microbiology, metabolite modeling, as well as protein and VFA nutrition and metabolism. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2017

AN SCI/DY SCI 825 — RUMINANT NUTRITIONAL PHYSIOLOGY II
4 credits.

Focuses on calf and heifer nutrition, regulation of dry matter intake, plant and forage chemistry, vitamins, lipids, and starch. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

AN SCI/DY SCI 931 — SEMINAR IN ANIMAL NUTRITION
1 credit.

Discussion of literature that has a bearing on animal nutrition. Students are to survey the literature and present a seminar. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2021
AN SCI/DY SCI/GENETICS 951 — SEMINAR IN ANIMAL BREEDING
0-1 credits.
Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2020

AN SCI/OBS&GYN/ZOOLOGY 954 — SEMINAR IN ENDOCRINOLOGY-REPRODUCTIVE PHYSIOLOGY
0-1 credits.
Promotes scientific and professional development. Presenters develop and deliver research presentations to a scientific audience, field questions, and receive critiques about their presentation style and scientific approach. Additional presentations include professional development, career advancement opportunities, and topics of interest to the endocrinology and reproduction community at large. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

AN SCI 990 — RESEARCH
1-12 credits.
Independent research in preparation of a graduate thesis under supervision of a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2021