SURGICAL SCIENCES (SURG SCI)

SURG SCI 501 — RADIOGRAPHIC ANATOMY OF THE DOG AND CAT
1 credit.

Normal radiographic anatomy of the dog and cat. This will include soft tissue structures as well as the skeletal system. Clinical case material to emphasize the need for a thorough knowledge of normal radiographic anatomy. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with first year standing
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

SURG SCI 542 — VETERINARY OPHTHALMOLOGY
2 credits.

Provides basic instruction in the application of ophthalmic diagnostics and therapeutics to small and large domestic animals. Acquire skills and knowledge to accurately diagnose, treat, prognose or refer domestic animals with common ophthalmic disorders. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 543 — FUNDAMENTALS OF ANESTHESEOLOGY I
1 credit.

Covers basic principles of sedation, pain physiology, anesthetic drugs, anesthetic monitoring, and the practical considerations in performing anesthesia on healthy veterinary species. Case-based and interactive where appropriate. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with second year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 544 — SURGERY FUNDAMENTALS
2 credits.

Introductory material on the scientific foundations of surgery. Preparation for clinical work in veterinary surgery and medicine. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with second year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 545 — FUNDAMENTALS OF ANESTHESEOLOGY II
1 credit.

Focus on anesthetic management of common veterinary species with concurrent medical disease. Covers advanced pain management principles and techniques, anesthesia for exotic animal species, and breed considerations in anesthesia. Case-based and interactive where appropriate. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI/F&W ECOL 548 — DISEASES OF WILDLIFE
3 credits.

Provides an overview of the issues involved across a wide range of wildlife diseases, presented within the context of ecosystem health or "one health". Content will be on the biological, epidemiological, clinical, public health and, in some cases, sociopolitical ramifications of wildlife diseases. Covers a wide variety of wildlife diseases caused by bacteria, viruses, parasites, prions, and environmental contaminants. Consequences associated with environmental changes on the manifestation of wildlife diseases will also be discussed. This range of diseases will be presented in order to familiarize the many facets involved in disease management, from animal and human health issues, to ecological and environmental considerations, to the role of society in contributing to, and managing, these diseases. Enroll Info: None
Requisites: BOTANY/BIOLOGY 130, (ZOOLOGY/BIOLOGY 101 102), BIOLOGY/BOTANY/ZOOLOGY 151, BIOCORE 381, 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
Repeatable for Credit: No
Last Taught: Fall 2021

SURG SCI 630 — SMALL ANIMAL SURGERY
4 credits.

The pathophysiology and diagnosis of common general, orthopedic, and neurologic surgical diseases of small animals are presented. The operative management and postoperative care of small animal surgical patients are discussed in detail. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Fall 2021

SURG SCI 631 — LARGE ANIMAL SURGERY: ORTHOPEDIC AND SOFT TISSUE
3 credits.

Examination techniques, diagnostic aids and surgical procedures relevant to the gastrointestinal, integumentory, musculoskeletal, respiratory and genitourinary systems of the equine and food animal species. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Spring 2022
Surgical Sciences (SURG SCI)

SURG SCI 632 — SMALL ANIMAL SURGERY LABORATORY
2 credits.

Basic skills necessary for participation in the surgical management of small animals in the Veterinary Medical Teaching Hospital. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 634 — SMALL ANIMAL ANESTHESIA LABORATORY
1 credit.

Apply principles and techniques of veterinary anesthesiology to common companion animals. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 638 — VETERINARY DIAGNOSTIC IMAGING
2 credits.

Veterinary radiology principles, physical background and diagnostic techniques will be taught and emphasized in laboratory exercises. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Fall 2021

SURG SCI 642 — LARGE ANIMAL SURGERY: CLINICAL ROTATION
2 credits.

Learn the admission, examination, preoperative management, surgical procedures and postoperative management of large animals presented to the Veterinary Medical Teaching Hospital. Hands-on experience in the Large Animal Surgery Service. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 644 — CLINICS-SMALL ANIMAL ORTHOPEDIC SURGERY
2 credits.

Rotation through orthopedic and neurosurgical clinics and surgery. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 645 — SENIOR ROTATION IN SMALL ANIMAL GENERAL SURGERY
2 credits.

Hands-on diagnosis and treatment of general surgical diseases of small animal species. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 646 — VETERINARY ANESTHESIOLOGY-CLINICAL ROTATION
2 credits.

Clinical anesthesia and pain management techniques including pre-anesthetic evaluation, induction procedures, intraoperative anesthetic and analgesic care and recovery management of small, large and exotic animal species. Critical patient care, novel anesthetic and analgesic techniques and cardiopulmonary resuscitation. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 647 — RADIOLOGY CLINICS
2 credits.

Clinical clerkship in the Veterinary Medical Teaching Hospital. Provides exercises in technical and interpretive diagnostic radiology. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 675 — SPECIAL TOPICS
1-5 credits.

Topics vary. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 676 — SPECIAL SPECIES HEALTH
2 credits.

Basic principles of the clinical management of exotic pet species, with an emphasis on small mammals (rabbits, rodents, etc), birds and reptiles commonly kept as companion animals. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 677 — VETERINARY DENTISTRY ELECTIVE
1 credit.

Introduction to veterinary dentistry principles and practice. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with third year standing
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 699 — DIRECTED STUDY
1-5 credits.

Projects in the laboratory and/or through library work in specific subject area under the direct guidance of a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022
SURG SCI 712 — ZOOLOGICAL MEDICINE CLINICAL ROTATION
2 credits.
Practice medical management of zoological species kept in small- to medium-sized zoological facilities and wildlife rehabilitation cases, in collaboration with local facilities, such as Henry Vilas Zoo, Ochsner Park Zoo, and the Dane County Humane Society's Wildlife Center. Prepare for clinical cases, provide on-site medical evaluations, and complete medical records. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, for 2 number of completions

SURG SCI 741 — CLINICAL OPHTHALMOLOGY ROTATION
2 credits.
Provides experience in ocular examination, problem solving skills, and formulation of diagnostic and therapeutic plans for animals presenting with eye disease. Ocular examination as part of the complete physical examination and ocular manifestations of systemic diseases are emphasized. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 743 — ADVANCED ANESTHESIOLOGY/CRITICAL CARE MEDICINE
2 credits.
Provides advanced, in-depth training in the areas of small, large and exotic animal anesthesia and pain management. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 744 — RESTRAINT AND ANESTHESIA OF EXOTIC ANIMALS
2 credits.
Provides advanced, directed anesthetic and restraint techniques for multiple exotic animal species such as rodents, rabbits, amphibians, reptiles, primates, fish and birds. The unique pharmacology and physiology of each species will be emphasized. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 746 — FOOD ANIMAL SURGERY
2 credits.
Provides didactic and surgical experience in the major, common surgical diseases of cattle and pigs. Enroll info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

SURG SCI 748 — DENTISTRY AND ORAL SURGERY ROTATION
1-3 credits.
Dentistry, oral medicine and surgery as well as comprehensive patient care through the use of progressive methods, hospital resources and interdisciplinary specialists. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 750 — SMALL ANIMAL ULTRASOUND ELECTIVE
1 credit.
Introduction to hands-on ultrasound imaging and expand on selected portions of ultrasound physics, literature and problem-based case studies. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 775 — EXTERNSHIP
1-24 credits.
Offers opportunities for faculty coordinated experience in the veterinary medical profession outside School of Veterinary Medicine. Enroll Info: None
Requisites: Declared in Doctor of Veterinary Medicine with fourth year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2022

SURG SCI 812 — RESEARCH ETHICS AND CAREER DEVELOPMENT
2 credits.
Provides instruction in principles and concepts of research ethics through presentations and discussion of case studies. Topics pertinent to development of a successful career in research are also included. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021