SMALL ANIMAL CLINICAL SCIENCES

Department of Small Animal Clinical Sciences
College of Veterinary Medicine

561 Clinical Competencies III
Fall. 1(0-2) RB: Completion of Year 2 of the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Development of skills for the safe and humane examination and handling of dogs and cats. Performance of common procedures for obtaining specimens and administering medication.

562 Introduction to Exotic Species and Small Mammal Medicine
Spring. 1(1-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Basic anatomy, physiology, and common disease processes of small mammals, birds, and reptiles. Species include ferrets, rabbits, guinea pigs, small rodents, pet birds, and reptiles.

563 Applied Small Animal Nutrition
Fall. 1(1-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Principles of life stage nutrition and making dietary recommendations for healthy and sick small animal patients.

564 Animal Behavior
Spring. 1(1-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Diagnosis, treatment and prevention of behavioral problems in dogs and cats. Topics include problem prevention, behavior intervention, aggression, anxiety related problems, inappropriate elimination, normal unwanted behavior, client counseling and interaction, and companion animal welfare.

565 Emergency and Critical Care Medicine Seminars
Fall. Spring. 1(1-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Case-based discussion of small animal veterinary emergency and critical care medical issues.

566 Small Animal Clinical Oncology
Fall. 1(1-0) RB: Completion of year 2 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Overview of cancer in dogs and cats. Clinical management.

567 Small Animal Advanced Orthopedics Seminars
Fall. 1(1-0) RB: Completion of year 2 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Basic biomechanics and research in orthopedics including novel concepts and techniques in fracture management, arthroplasties, corrective osteotomies, implant design, and performance.

568 Selective Topics in Small Animal Clinical Sciences
Fall, Spring. 1(1-0) RB: Completion of year 1 of the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine or in the Department of Small Animal Clinical Sciences.

Important field of study in Small Animal Clinical Sciences

611 Diagnostic Imaging Clerkship
Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the professional veterinary program.

Diagnostic radiography and ultrasound imaging. Radiation safety. Special procedures.

612 Problems in Diagnostic Imaging Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (SCS 611) and Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Advanced diagnostic radiography, ultrasound imaging, and magnetic resonance imaging.

613 Diagnostic Ultrasound Clerkship
Fall, Spring, Summer. 3 credits. RB: (SCS 611) and Completion of semester 5 of the professional veterinary program. R: Open to graduate-professional students in the College of Veterinary Medicine.

Principles of ultrasound physics, ultrasound scanning techniques, and interpretation of ultrasound imaging.

614 Small Animal Ophthalmology Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (SCS 666) and Completion of semester 5 of the professional veterinary program. R: Open to graduate-professional students in the College of Veterinary Medicine.

Ophthalmic evaluation of all species. Diagnosis and medical and surgical treatment of ophthalmic disease.

615 Cardiology Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in the College of Veterinary Medicine.

Diagnosis and medical and surgical treatment of small animal thoracic and cardiovascular disorders.

616 Comparative Ophthalmology Clerkship
Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the professional veterinary program. R: Open to veterinary medicine students in the College of Veterinary Medicine.

Ophthalmic evaluation of all species. Diagnosis and medical and surgical treatment of ophthalmic disease.

617 Zoo and Wildlife Clerkship
Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the professional veterinary program. R: Open to veterinary medicine students in the College of Veterinary Medicine.

Zoo animal and wildlife medicine and surgery.

618 Neurology Clerkship
Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in the College of Veterinary Medicine.

Diagnosis and medical and surgical treatment of small animal neurological disorders.

619 Dermatology Clerkship
Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the professional veterinary program. R: Open to graduate-professional students in the College of Veterinary Medicine.

Diagnosis and treatment of small animal dermatological disorders.
Supply Chain Management—SCM

645  Intensive Care Unit Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in College of Veterinary Medicine. Not open to students with credit in SCS 622.

Intensive care and management of critically ill small animals.

646  Small Animal Orthopedic Surgery Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in the College of Veterinary Medicine.

Diagnosis and preoperative, surgical, and postoperative care of patients requiring routine and major orthopedic surgical procedures.

647  Small Animal Internal Medicine Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in the College of Veterinary Medicine.

Diagnosis and therapy for complicated medical cases of small animals.

648  Anesthesia Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program.

Pre-anesthesia evaluation, induction, monitoring, and recovery of small animal patients requiring routine and major surgical procedure.

650  Advanced Cardiology Clerkship
Spring. 3 credits. RB: (SCS 640) and Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Advanced cardiology practice.

651  Advanced Comparative Ophthalmology Clerkship
Spring. 3 credits. RB: (SCS 641) and Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Approval of department.

Problem-oriented approach to complex ocular disease processes at the gross and microscopic levels.

653  Problems in Neurology Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (SCS 643) and completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Neurologic problems.

654  Clinical Medical Oncology Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program in the College of Veterinary Medicine.

R: Open to graduate-professional students in the College of Veterinary Medicine. Management of veterinary cancer patients, including diagnosis, staging evaluation, prognosis and multimodality therapy. Daily clinical rounds and didactic topics.

655  Clinical Surgical Oncology Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of Semester 5 of the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Surgical management of veterinary cancer patients, including diagnosis, staging evaluation, surgical techniques, and perioperative prognosis.

670  Clinical Nutrition for Small Animals
Spring. 3 credits. RB: Completion of Semester 5 of the graduate-professional program in the College of Veterinary Medicine. Principles of clinical nutrition and dietetics for dogs and cats: diet evaluation, nutritional assessment, critical care nutrition support, and clinical case evaluations.

690  Veterinary Molecular Biology Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Concepts and techniques of veterinary molecular biology.

693  Problems in Small Animal Clinical Sciences Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Open to veterinary medicine students.

Special problems.

694  Small Animal Specialty Practice Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. R: Open to veterinary medicine students in the College of Veterinary Medicine.

Supervised, off-campus, specialty practice experience in an assigned veterinary practice or other school of veterinary medicine.

695  Emergency and Critical Care Medicine Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in the College of Veterinary Medicine.

Admission, triage, diagnosis, treatment, and discharge of patients entering an emergency service. Daily instructional rounds.

808  Problems in Small Animal Surgery
Fall, Spring, Summer. 1 to 9 credits. A student may earn a maximum of 15 credits in all enrollments for this course. R: Open only to graduate students in the Department of Small Animal Clinical Sciences.

Problems in small animal surgery.

813  Small Animal Seminar
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to graduate students in the Department of Small Animal Clinical Sciences.

Small animal seminar.

820  Experimental Design and Analysis of Clinical Research
Fall of odd years. 2(2-0) R: Approval of department.

Experimental design and analysis in the animal medical sciences with particular emphasis on preclinical and clinical veterinary experiments.

830  Comparative Systems Review in Oncologic Medicine - Supradiaphragmatic
Fall, 2(2-0) RB: Completion of year 2 of the graduate professional program in the College of Veterinary Medicine.

Literature review of supradiaphragmatic oncologic diseases organized by organ system. Comparative aspects of the specific malignancies in human and veterinary oncology.

831  Comparative Systems Review in Oncologic Medicine - Subdiaphragmatic
Spring, 2(2-0) RB: Completion of year 2 of the graduate professional program in the College of Veterinary Medicine.

Literature review of subdiaphragmatic oncologic diseases organized by organ system. Comparative aspects of the specific malignancies in human and veterinary oncology.

832  Comparative Cancer Biology
Spring, 2(2-0) RB: Completion of year 2 of the graduate professional program in the College of Veterinary Medicine.


833  Pharmacology of Anticancer Chemotherapeutics
Fall, 2(2-0) RB: Completion of year 2 of the graduate professional program in the College of Veterinary Medicine.

Literature review and discussion of drugs and other agents used in the treatment of neoplastic diseases in humans and companion animals.

834  Principles of Cancer Protocol Design
Fall, 2(2-0) RB: Completion of year 2 of the graduate professional program in the College of Veterinary Medicine.

Principles of the design and evaluation of clinical trials in oncology.

835  Comparative Aspects of Tumor Immunology
Spring, 2(2-0) RB: Completion of year 2 of the graduate professional program in the College of Veterinary Medicine.

Understanding the immune system's response to neoplastic cells and how the immune response may be recruited to fight cancer. Comparative aspects of immunology.
Master's Thesis Research
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate students in the Department of Small Animal Clinical Sciences.
Master's thesis research.