SMALL ANIMAL CLINICAL SCIENCES

Department of Small Animal Clinical Sciences
College of Veterinary Medicine

562 Veterinary Medical Genetics
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. Mechanisms, recognition, diagnosis, and control of genetics diseases in veterinary medicine.

563 Introduction to Exotic Species and Small Mammal Medicine
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 Applied Small Animal Nutrition
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. Species include ferrets, rabbits, guinea pigs, small rodents, pet birds, and reptiles.

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

566 Emergency and Critical Care Medicine Seminars
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. Case-based discussion of small animal veterinary emergency and critical care medical issues.

590 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 only to graduate-professional students in the College of Veterinary Medicine. Principles of ultrasound physics, ultrasound scanning techniques, and interpretation of ultrasound imaging.

625 Small Animal General Medicine Clerkship
Fall, Spring, Summer. 3 credits. RB: Open only to graduate-professional students in College of Veterinary Medicine. Diagnostic and treatment services for routine and emergency outpatients.

626 Small Animal Soft Tissue 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 College of Veterinary Medicine. Diagnosis and preoperative, surgical, and postoperative care of patients requiring routine elective and major soft tissue surgical procedures.

630 Spay/Neuter Clerkship
Fall, Spring, Summer. 3 credits. RB: (SCS 626 and SCS 648) and Completion of semester 5 of the graduate professional veterinary program. Ovariohysterectomy or ovariectomy. Aspects of pre and post-operative management and anesthesia.

636 Problems in Soft Tissue Surgery Clerkship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (SCS 626) and Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. Soft tissue surgery problems.

637 Operative Surgery: Instruction and Review
Fall. 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. Approval of department.

640 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 College of Veterinary Medicine. Diagnosis and medical, and surgical treatment of small animal thoracic and cardiovascular disorders.

641 Comparative Ophthamology Clerkship
Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in College of Veterinary Medicine. Ophthalmic evaluation of all species. Diagnosis and medical and surgical treatment of ophthalmic disease.

642 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.

643 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 College of Veterinary Medicine. Not open to students with credit in SCS 666. Diagnosis and medical and surgical treatment of small animal neurological disorders.

644 Dermatology 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. Diagnosis and treatment of small animal dermatological disorders.

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.
Small Animal Clinical Sciences—SCS

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 therapy for complicated medical cases of small animals.

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. R: Open only to graduate-professional students in the College of Veterinary Medicine.  
Pre-anesthesia evaluation, induction, monitoring, and recovery of small animal patients requiring routine and major orthopedic surgical procedures.

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 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 graduate professional 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, prognostication 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.

656  Small Animal Specialty Practice Clerkship  
Spring. 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.

660  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. R: Open to veterinary medicine students.  
Concepts and techniques of veterinary molecular biology.

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.

672  Clinical Study in Small Animals  
Spring. 3 credits. RB: Completion of Semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Open to veterinary medicine students.  
Principles and practice of veterinary teaching.

679  Comparative 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 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.

680  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.

681  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.

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

683  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.

684  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.

685  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.
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.

899  **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.