DEPARTMENT OF VETERINARY SMALL ANIMAL CLINICAL SCIENCES

http://vetmed.tamu.edu/vscs

Head: Jonathan M. Levine

The Department of Small Animal Clinical Sciences has three major missions: education, patient care, and scholarship. Each of these activities is intended to improve the quality of life for companion animals and their owners. Faculty and staff in the department participate in all four years of the professional curriculum, although most interactions with students occur in the third and fourth years. The department offers a one-year internship program for the newly graduated veterinarians, and three-year residency programs in several clinical disciplines for veterinarians seeking advanced training and board certification. Faculty and staff frequently contribute to continuing education programs and may teach and mentor students earning the interdepartmental graduate degrees in Biomedical Sciences offered by the College of Veterinary Medicine & Biomedical Sciences.

Scholarly programs of the faculty are centered mainly on the study of the spontaneously occurring diseases of the patients presented to the Small Animal Hospital. Investigative programs are active in anesthesiology, animal behavior, cardiology, clinical nutrition, dermatology, feline internal medicine, gastroenterology, general surgery, G.I. Lab, internal medicine, neurology/neurosurgery, oncology, and orthopedic and soft tissue surgery.

Approximately, 20,000 animals are presented to the Small Animal Hospital for advanced diagnostic procedures and state-of-the-art treatment methods. Faculty, staff, and fourth-year students participate as a team in the care of these patients. Many of these patients are referred from veterinarians throughout Texas and the region, so that they may receive the benefits of the unique expertise and diagnostic and therapeutic technology offered by the Small Animal Hospital.

Faculty

August, John R, Professor
Vet Small Animal Clinical Sc
MS, Auburn University, 1977
BVetMed, University of London, 1973

Baetge, Courtney L, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 2003

Barr, James W, Assistant Professor
Vet Small Animal Clinical Sc
DVM, Louisiana State University, 2001

Barton, Claudia L, Professor
Vet Small Animal Clinical Sc
DVM, University of Missouri - Columbia, 1973

Beaver, Bonnie V, Professor
Vet Small Animal Clinical Sc
DVM, University of Minnesota, Twin Cities, 1968

Bennett, Brad S, Lecturer
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 2007

Bolling, Melanie E, Lecturer
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 2005

Boudreau, Christen E, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 2010
PHD, Baylor College of Medicine, 2001

Ciepluch, Michael F, Lecturer
Vet Small Animal Clinical Sc
DVM, The Ohio State University, 2013

Cook, Audrey K, Associate Professor
Vet Small Animal Clinical Sc
DVM, University of Edinburgh, 1989

Cornell, Karen K, Professor
Vet Small Animal Clinical Sc
PHD, Purdue University, 1998
DVM, Purdue University, 1988

Creavy, Kate E, Associate Professor
Vet Small Animal Clinical Sc
MS, University of Georgia, 2007
DVM, University of Tennessee, 1998

Davidson, Jacqueline R, Clinical Professor
Vet Small Animal Clinical Sc
MS, Purdue University, 1991
DVM, University of Minnesota, 1986

Dawson, Jesse E, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Kansas State University, 2009

Deveau, Michael A, Clinical Associate Professor
Vet Small Animal Clinical Sc
DVM, Kansas State University, 2005

Diesel, Alison B, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Kansas State University, 2005

Dodd, Johnathon R, Clinical Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 1979

Eckman, Stacy L, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 2001

Gordon, Sonya G, Associate Professor
Vet Small Animal Clinical Sc
DVM, University of Guelph, 1994

Griffin, Sarah C, Lecturer
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 2007
Heatley, Jennifer J, Associate Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 1995

Heseltine, Johanna C, Clinical Assistant Professor
Vet Small Animal Clinical Sc
MS, Virginia-Maryland Regional College of Veterinary Medicine, 2004
DVM, University of Saskatchewan, 1998

Hoppes, Sharman M, Clinical Associate Professor
Vet Small Animal Clinical Sc
DVM, Oklahoma State University, 1993

Howe, Lisa M, Professor
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 1993
DVM, Texas A&M University, 1987

Jeffery, Nicholas D, Professor
Vet Small Animal Clinical Sc
PHD, The University of Cambridge, 1997

Johnson, Derek W, Lecturer
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 2014

Kerwin, Sharon C, Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 1988

Levine, Jonathan M, Professor
Vet Small Animal Clinical Sc
DVM, Cornell University, 2001

Lidbury, Jonathan A, Assistant Professor
Vet Small Animal Clinical Sc
DVM, University of Glasgow, 2002

Little, Adam L, Assistant Professor of the Practice
Vet Small Animal Clinical Sc
DVM, University of Guelph, 2013

Loria Lepiz, Mauricio A, Clinical Assistant Professor
Vet Small Animal Clinical Sc
MS, Washington State University, 2006
DVM, Universidad Nacional de Costa Rica, 2000

Mankin, Joseph M, Clinical Associate Professor
Vet Small Animal Clinical Sc
DVM, University of Tennessee, 2007

Mankin, Kelley M, Assistant Professor
Vet Small Animal Clinical Sc
DVM, University of Missouri - Columbia, 2006

Martinez, Elizabeth A, Associate Professor
Vet Small Animal Clinical Sc
PHD, University of Tennessee, 1987

Patterson, Adam P, Clinical Associate Professor
Vet Small Animal Clinical Sc
DVM, Mississippi State University, 2001

Peycke, Laura E, Clinical Professor
Vet Small Animal Clinical Sc
DVM, Louisiana State University, 1998

Rogers, Kenita S, Professor
Vet Small Animal Clinical Sc
MS, Texas A&M University, 1986
DVM, Louisiana State University, 1982

Rutter, Christine R, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Mississippi State University, 2003

Saunders, Ashley B, Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 2001

Saunders, William B, Associate Professor
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 2005
DVM, Texas A&M University, 2001

Scallan, Elizabeth M, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Ross University School of Veterinary Medicine, 2007
MS, Texas A&M University, 2001

Scott, Erin M, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, University of Pennsylvania, 2015

Simon, Bradley T, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Ross University, 2007

Steiner, Joerg M, Professor
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 2000

Stickney, Mark J, Clinical Associate Professor
Vet Small Animal Clinical Sc
DVM, Texas A&M University, 1997

Suchodolski, Jan, Associate Professor
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 2005

Vallone, Lucien V, Clinical Assistant Professor
Vet Small Animal Clinical Sc
DVM, Mississippi State University, 2011

Wesselowski, Sonya R, Clinical Assistant Professor
Vet Small Animal Clinical Sc
MS, Virginia Polytechnic Institute and State University, 2014
DVM, Kansas State University, 2008

Wilson-Robles, Heather M, Associate Professor
Vet Small Animal Clinical Sc
DVM, University of Tennessee, 2003

Zoran, Debra L, Professor
Vet Small Animal Clinical Sc
PHD, Texas A&M University, 1997
DVM, Kansas State University, 1984
Department of Veterinary Small Animal Clinical Sciences

# Courses

**VSCS 681 Seminar**
**Credit**: 1. 1 Other Hour.
Current scientific work in medical and surgical fields in and related to small animal medicine and surgery. May be repeated for credit.
**Prerequisite**: DVM degree or approval of department head.

**VSCS 685 Directed Studies**
**Credits**: 1 to 8. 1 to 8 Other Hours.
Original investigations of problems in field of small animal surgery, therapeutics or radiology.
**Prerequisite**: DVM degree or approval of instructor and department head.

**VSCS 689 Special Topics in...**
**Credits**: 1 to 4. 1 to 4 Lecture Hours. 0 to 6 Lab Hours.
Special topics in an identified area of small animal medicine or surgery. May be repeated for credit.
**Prerequisite**: DVM degree or approval of instructor and department head.

**VSCS 691 Research**
**Credits**: 1 to 23. 1 to 23 Other Hours.
Research for thesis.

**VSCS 697 Teaching Anatomy Lab**
**Credits**: 4. 2 Lecture Hours. 12 Lab Hours.
Theory and practical aspects of teaching neuroanatomy lab and clinical neurology; emphasis on content, instructional methods and practical aspects of neuroanatomy lab.
**Prerequisites**: Graduation classification in VIBS/VSCS; appointment as TA for VIBS 913 anatomy lab.

**VSCS 901 Integrated Animal Care I**
**Credits**: 3. 2 Lecture Hours. 2 Lab Hours.
Foundation in companion animal and large animal veterinary care; focus on day-one veterinary wellness and preventive care and herd-health concepts; exposure includes companion animal species, common large animal species, pocket pets, reptiles, camels, miniature pigs and birds; clinical application of topics including neonatal care, husbandry practices, animal behavior, parasite prevention, immunization protocols and healthy animal nutrition.
**Prerequisite**: Enrollment in the first year of professional DVM curriculum.

**VSCS 920 Principles of Surgery**
**Credits**: 2. 1 Lecture Hour. 2 Lab Hours.
Surgical management of veterinary patients; focus on basic surgical equipment, techniques, procedures and preparation of the surgeon and patient.
**Prerequisites**: Graduation classification in veterinary medicine or approval of department head.

**VSCS 921 Principles of Anesthesia & Analgesia**
**Credits**: 3. 2 Lecture Hours. 2 Lab Hours.
Principles of Anesthesia & Analgesia. Clinical practice of veterinary anesthesia and analgesia; equipment for administration of inhalant anesthetics, evaluation and preparation of patients for anesthesia, equipment and techniques for monitoring anesthetized patients; methods for controlling pain during the perianesthetic period; anesthetic principles for management of various species; anesthetic principles for management of patients with coexisting disease.
**Prerequisites**: Enroll in the second year of professional DVM curriculum.

**VSCS 930 Principles of Anesthesia & Analgesia**
**Credits**: 3. 2 Lecture Hours. 2 Lab Hours.
Principles of Anesthesia & Analgesia. Clinical practice of veterinary anesthesia and analgesia; equipment for administration of inhalant anesthetics, evaluation and preparation of patients for anesthesia, equipment and techniques for monitoring anesthetized patients; methods for controlling pain during the perianesthetic period; anesthetic principles for management of various species; anesthetic principles for management of patients with coexisting disease.
**Prerequisites**: Enroll in the second year of professional DVM curriculum.

**VSCS 931 Principles of Surgery**
**Credits**: 2. 1 Lecture Hour. 2 Lab Hours.
Surgical management of veterinary patients; focus on basic surgical equipment, techniques, procedures and preparation of the surgeon and patient.
**Prerequisites**: Graduation classification in veterinary medicine or approval of department head.

**VSCS 932 Principles of Anesthesia & Analgesia**
**Credits**: 3. 2 Lecture Hours. 2 Lab Hours.
Principles of Anesthesia & Analgesia. Clinical practice of veterinary anesthesia and analgesia; equipment for administration of inhalant anesthetics, evaluation and preparation of patients for anesthesia, equipment and techniques for monitoring anesthetized patients; methods for controlling pain during the perianesthetic period; anesthetic principles for management of various species; anesthetic principles for management of patients with coexisting disease.
**Prerequisites**: Enroll in the second year of professional DVM curriculum.

**VSCS 933 Professional & Clinical Skills I**
**Credits**: 3. 7 Lab Hours.
Integration and reinforcement of foundational knowledge offered in concurrent courses through critical thinking exercises, professional skills application activities (ethics/contextual decision-making, leadership, skills for well-being, personal/practice financial literacy, core communication skills) and application of technical skills; opportunities for learning include didactic, hands-on and case-based interactions utilizing simulation, models, animals, actors and case scenarios; part V of a VI part series.
**Prerequisite**: Enrollment in the third year of professional DVM curriculum.

**VSCS 934 Professional & Clinical Skills II**
**Credits**: 3. 7 Lab Hours.
Integration and reinforcement of foundational knowledge offered in concurrent courses through critical thinking exercises, professional skills application activities (ethics/contextual decision-making, leadership, skills for well-being, personal/practice financial literacy, core communication skills) and application of technical skills; opportunities for learning include didactic, hands-on and case-based interactions utilizing simulation, models, animals, actors and case scenarios; part V of a VI part series.
**Prerequisite**: Enrollment in the third year of professional DVM curriculum.

**VSCS 935 Professional & Clinical Skills III**
**Credits**: 3. 7 Lab Hours.
Integration and reinforcement of foundational knowledge offered in concurrent courses through critical thinking exercises, professional skills application activities (ethics/contextual decision-making, leadership, skills for well-being, personal/practice financial literacy, core communication skills) and application of technical skills; opportunities for learning include didactic, hands-on and case-based interactions utilizing simulation, models, animals, actors and case scenarios; part V of a VI part series.
**Prerequisite**: Enrollment in the third year of professional DVM curriculum.

**VSCS 936 Professional & Clinical Skills IV**
**Credits**: 3. 7 Lab Hours.
Integration and reinforcement of foundational knowledge offered in concurrent courses through critical thinking exercises, professional skills application activities (ethics/contextual decision-making, leadership, skills for well-being, personal/practice financial literacy, core communication skills) and application of technical skills; opportunities for learning include didactic, hands-on and case-based interactions utilizing simulation, models, animals, actors and case scenarios; part V of a VI part series.
**Prerequisite**: Enrollment in the third year of professional DVM curriculum.

**VSCS 937 Professional & Clinical Skills V**
**Credits**: 3. 7 Lab Hours.
Integration and reinforcement of foundational knowledge offered in concurrent courses through critical thinking exercises, professional skills application activities (ethics/contextual decision-making, leadership, skills for well-being, personal/practice financial literacy, core communication skills) and application of technical skills; opportunities for learning include didactic, hands-on and case-based interactions utilizing simulation, models, animals, actors and case scenarios; part V of a VI part series.
**Prerequisite**: Enrollment in the third year of professional DVM curriculum.

**VSCS 938 Professional & Clinical Skills VI**
**Credits**: 3. 7 Lab Hours.
Integration and reinforcement of foundational knowledge offered in concurrent courses through critical thinking exercises, professional skills application activities (ethics/contextual decision-making, leadership, skills for well-being, personal/practice financial literacy, core communication skills) and application of technical skills; opportunities for learning include didactic, hands-on and case-based interactions utilizing simulation, models, animals, actors and case scenarios; part V of a VI part series.
**Prerequisite**: Enrollment in the third year of professional DVM curriculum.

**VSCS 939 Special Topics in...**
**Credits**: 1 to 23. 1 to 23 Other Hours.
Research for thesis.

**VSCS 940 Small Animal Clinics I**
**Credits**: 2. 35 Lab Hours.
Student participation with clinical cases in the small animal medicine services of the Veterinary Teaching Hospital. Must be taken two times.
**Prerequisite**: Fourth year classification in veterinary medicine or approval of department head.

**VSCS 941 Small Animal Clinics II**
**Credits**: 2. 35 Lab Hours.
Student participation with clinical cases in the small animal surgery services of the Veterinary Teaching Hospital. Must be taken two times.
**Prerequisite**: VSCS 940 or approval of department head.

**VSCS 942 Advanced Small Animal Clinical Elective**
**Credits**: 2. 35 Lab Hours.
Student participation with clinical cases for advanced student in selected services of the small animal medicine and surgery sections of the Veterinary Teaching Hospital. May be taken 12 times.
**Prerequisite**: VSCS 940 or approval of department head.

**VSCS 943 Small Animal Medicine and Surgery Elective**
**Credits**: 1 to 12. 1 to 12 Lecture Hours.
In-depth study of selected disease processes in the various disciplines of small animal medicine and surgery will be conducted emphasizing management, diagnostics and medical or surgical treatment. May be repeated for credit.
**Prerequisite**: Third year classification in veterinary medicine or approval of department head.
VSCS 953 Small Animal Clinical Skills  
Credit 1. 1 Lecture Hour.  
Acquisition of basic technical skills useful in the diagnosis and treatment of small animals in general veterinary practice. Modular one month course.  
**Prerequisite:** Third year classification in veterinary medicine in good standing.

VSCS 954 Small Animal Medicine I  
**Credits 6. 5 Lecture Hours. 2 Lab Hours.**  
Medical disease of dogs and cats; pathophysiology, diagnosis and therapy of diseases prevalent in small animals.  
**Prerequisite:** Third year classification in veterinary medicine in good standing.

VSCS 955 Small Animal Medicine II  
**Credits 6. 6 Lecture Hours. 2 Lab Hours.**  
Continuation of Small Animal Medicine I; medical disease of dogs and cats; pathophysiology, diagnosis and therapy of diseases prevalent in small animals.

VSCS 956 Small Animal Diagnostics & Therapeutics I  
**Credits 4.5. 4.5 Lecture Hours.**  
Small Animal Diagnostics & Therapeutics I. Medical and surgical diseases in dogs and cats including pathophysiology, diagnosis and therapeutic management; understanding of self-directed continued study and appropriate use of referral; disorders of the reproductive, respiratory, hemolymphatic, dermatologic, urinary, neurologic, gastrointestinal, ophthalmic, cardiovascular, neuromuscular, orthopedic and endocrine systems; includes neoplastic, nutritional, infectious and metabolic disorders.  
**Prerequisite:** Enrollment in the third year of professional DVM curriculum.

VSCS 957 Small Animal Diagnostics & Therapeutics II  
**Credits 4.5. 4.5 Lecture Hours.**  
Small Animal Diagnostics & Therapeutics II. Medical and surgical diseases in dogs and cats including pathophysiology, diagnosis and therapeutic management; understanding of self-directed continued study and appropriate use of referral; disorders of the reproductive, respiratory, hemolymphatic, dermatologic, urinary, neurologic, gastrointestinal, ophthalmic, cardiovascular, neuromuscular, orthopedic and endocrine systems; includes neoplastic, nutritional, infectious and metabolic disorders.  
**Prerequisite:** Enrollment in the third year of professional DVM curriculum.

VSCS 958 Clinical Focus-Tracking I - Companion Animal  
**Credits 2. 2 Lecture Hours.**  
Advanced medical and surgical disorders of the dog and cat; history-taking and problem-solving skills; physical examination findings; laboratory/imaging results; formulation of diagnostic and therapeutic plans.  
**Prerequisite:** Enrollment in the third year of professional DVM curriculum.

VSCS 960 Clinical Focus-Tracking II - Companion Animal  
**Credits 2. 2 Lecture Hours.**  
Advanced medical and surgical disorders of the dog and cat; history-taking and problem-solving skills; physical examination findings; laboratory/imaging results; formulation of diagnostic and therapeutic plans.  
**Prerequisite:** Enrollment in the third year of professional DVM curriculum.

VSCS 985 Directed Studies  
**Credits 1 to 4. 1 to 4 Other Hours.**  
Directed individual study of a selected problem in small animal medicine, surgery or radiology. May be repeated for credit.  
**Prerequisites:** Matriculation in veterinary professional curriculum and approval of department head.