



# The University of Georgia

## College of Veterinary Medicine Graduate Studies, 2006-2007

### Veterinary Graduate Programs

The College of Veterinary Medicine offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees. The major areas of concentration include anatomy (M.S. only), infectious diseases, pathology, pharmacology, physiology and toxicology. Non-thesis degree programs are offered leading to the degree of Master of Avian Medicine for veterinary graduates desiring specialized training in the diagnosis, treatment, and prevention of poultry diseases and to the degree of Master of Food Animal Health Management for veterinary graduates seeking specialized training in beef dairy and swine population medicine. With the exception of the pathology, avian medicine programs that require a D.V.M. degree for admission, the other programs are open both to veterinary graduates and to those with bachelor's and herd health degrees in appropriate areas.

Internship and residency non-thesis degree programs for veterinary graduates are offered in small animal medicine, large animal medicine, surgery, neurology, ophthalmology, theriogenology, and radiology. Residents have the opportunity to work toward the M.S. or Ph.D. degree in a basic science along with their clinical science training.

Research and training programs are supported by excellent laboratory facilities. The Veterinary Teaching Hospital and Diagnostic Laboratory are available to support research activities. Additional College facilities include Laboratory Animal Resources and the Electron Microscopy Laboratory, which contains scanning and transmission microscopes, with a confocal electron microscope located in the Center for Advanced Ultrastructural Research near the College. Also available are university service laboratories that include the monoclonal antibody laboratory (located in the college), the integrated biotechnology laboratories (Functional Genomics Resource Facility, Proteomics Facility, and Sequencing and Synthesis Facility), and various computer laboratories. A major new BSL3 and BSL3 Ag facility will soon be available.

The University's Science Library is located near the College of Veterinary Medicine. Computerized literature searches and resources for arranging interlibrary loans are available through the College's Library Reading Room.

### Educational Expenses

For the 2005-2006 year, graduate students who hold an assistantship requiring at least one-third-time service are assessed a \$25 matriculation fee plus an activities fee of \$495 per semester. Graduate students who do not hold an assistantship and are residents of Georgia pay a fee of \$2,184 plus activities fee of \$495 per semester; nonresidents pay \$9,384 plus the activities fee of \$495 per semester.

Veterinary medical graduate assistantships are available on a competitive basis to support most of the qualified graduate students holding the D.V.M. degree. A limited number of graduate assistantships are available on a competitive basis to students who do not have a D.V.M.

For 2005-2006, residence hall rooms are available for both men and women at rates of \$1,651 to \$2,344 per semester. The new East Campus Village rates vary according to fall, spring, or summer semesters from \$1,163 to \$2,646 per semester. Married student accommodations range from \$416 to \$671 per month plus utilities for University-operated housing on the campus. Additionally, there are numerous privately owned residences available for rent in the area.

### Athens and the University

Located in the Piedmont section of the state, Athens is known as Georgia's "Classic City," and has a population of over 103,000. Average temperatures range from 32 to 52 degrees Fahrenheit for January and to 90 degrees for July. The city and University offer a wide range of cultural activities, which are supplemented by the attractions of nearby Atlanta. The city and surrounding area provide facilities for all types of sports and recreational activities, ranging from winter skiing in the mountains 2 hours to the north to summer activities on the ocean, 4 hours to the southeast. There are a number of freshwater lakes and state parks with campsites within easy driving distance.

The University of Georgia was incorporated in 1785 and established in 1801 and is the oldest state declared university in the country. Since that time, the University of Georgia has grown to include thirteen different schools and colleges, several research institutes and experiment stations, an agricultural extension service, and a center for continuing education on approximately 3,500 acres in Athens-Clarke County, Georgia, with most of the teaching and research activities concentrated in an area within the city limit. Enrollment during 2004-2005 was 33,405, which includes a Graduate School enrollment of 6,304 and a Professional enrollment of 1,541.

### Application for Admission

Application for admission to the Graduate School may be made at any time. For graduate assistantships, the application deadline is February 15. Applicants to the graduate programs are expected to have a strong background in the biological sciences. The department in which the degree is conferred determines specific requirements for admission regarding grade point averages and test scores. Graduate Coordinators can be contacted for this information. Students for whom English is not the native language must achieve a TOEFL score of 550 and higher on the paper-based test or 213 and higher on the computer-based test.

#### **For additional information:**

Graduate Coordinator & Department (see back)  
College of Veterinary Medicine  
University of Georgia  
Athens, GA 30602-7371

#### **For applications:**

Graduate School  
Graduate Admissions  
University of Georgia  
Athens, GA 30602-7402

<http://www.gradsch.uga.edu/>

## Graduate Faculty and Areas of Research

(Departmental Graduate Coordinator indicated in red)

<b>ANATOMY AND RADIOLOGY</b>	<p>Sharon L. Crowell-Davis, D.V.M., Ph.D. - Human-animal bond, animal behavior. (706)542-8343 <a href="mailto:scrowell@vet.uga.edu">scrowell@vet.uga.edu</a></p> <p>Thomas M. Krunkosky, D.V.M., M.S., Ph.D. – Molecular mechanisms of inflammation and disease in the lung.</p>
<b>POPULATION HEALTH</b>	<p>Stephen Collett, D.V.M., Ph.D. – Clinical avian medicine.</p> <p>Maricarmen Garcia, Ph.D. - Avian virology, molecular virology.</p> <p>John R. Glisson, D.V.M., M.A.M., Ph.D. - Clinical avian medicine, mycoplasmosis and bacteriology.</p> <p>Charles L. Hofacre, D.V.M., M.A.M., Ph.D. - Clinical avian medicine, mycoplasmosis and bacteriology.</p> <p>Mark Jackwood, Ph.D. - Molecular biotechnology, molecular virology.</p> <p>Stanley H. Kleven, D.V.M., Ph.D. - Mycoplasmosis.</p> <p>Margie D. Lee, D.V.M., Ph.D. - Bacteriology.</p> <p>John J. Maurer, Ph.D. - Molecular bacteriology.</p> <p>Holly Sellers, M.S., Ph.D. – Avian virology.</p> <p>Stephen G. Thayer, Ph.D. – Diagnostic veterinary microbiology, viral serology.</p> <p><b>Margie Lee, D.V.M., Ph.D. – Microbial Pathogens. (706)583-5085 <a href="mailto:leem@uga.edu">leem@uga.edu</a></b></p> <p>Susan Williams, D.V.M., M.A.M., Ph.D. – Avian histopathology.</p> <p>Guillermo Zavala, M.S., D.V.M., M.A.M., Ph.D. – Clinical avian medicine.</p>
<b>LARGE ANIMAL MEDICINE</b>	<p>Michelle H. Barton, D.V.M., Ph.D. - Endotoxemia, Neonatology, Internal Medicine.</p> <p>Richard A. Fayer-Hosken, B.V.Sc., Ph.D. Theriogenology, reproductive physiology, immunocontraception, exotic reproductive physiology.</p> <p>David J. Hurley, Ph.D. - Veterinary Immunology and Vaccine Development.</p> <p>James N. Moore, D.V.M., Ph.D. - Endotoxemia &amp; Laminitis.</p> <p>John Peroni, Microvascular dysfunction in equine laminitis, Regulation of equine pulmonary blood flow, and Small vessel myography</p> <p>Michel Vandenplas, B.Sc., M.Sc., Ph.D. - Modulation of Endotoxin Signal Transduction in Human and Equine Monocytes, Generation of Equine Expressed Sequence Tags.</p> <p><b>Amelia R. Woolums, M.V.Sc., D.V.M., Ph.D. - Bovine Respiratory Disease and Respiratory Immunity. (706)542-9329 <a href="mailto:awoolums@vet.uga.edu">awoolums@vet.uga.edu</a></b></p>
<b>INFECTIOUS DISEASES</b>	<p>Joe Corn, Ph.D. - Tick Ecology and wildlife diseases.</p> <p>William R. Davidson, Ph.D. - Infectious diseases of wildlife.</p> <p>Harry W. Dickerson, B.V.Sc., Ph.D. - Comparative immunoparasitology.</p> <p>Donald L. Evans, Ph.D. - Cellular immunology and immunoregulation.</p> <p><b>Liliana Jaso-Friedmann, Ph.D. - Molecular immunology. (706)542-2875 <a href="mailto:ljaso@vet.uga.edu">ljaso@vet.uga.edu</a></b></p> <p>Mary Hondalus, D.V.M., Ph.D. - Tuberculosis, vaccines and Rhodococcus pathogenesis.</p> <p>Ray M. Kaplan, D.V.M., Ph.D. - Parasitic diseases of livestock.</p> <p>Susan E. Little, D.V.M., Ph.D. - Parasitology, molecular epidemiology.</p> <p>John W. McCall - Ph.D. - Chemotherapy and diagnosis of filariasis, parasitology.</p> <p>Daniel G. Mead, Ph.D. - Vector-borne viral diseases.</p> <p>Julie M. Moore, Ph.D. - Malarial immunology.</p> <p>Massimo Palmarini, D.V.M., Ph.D. - Retroviral biology and oncogenesis.</p> <p>David S. Peterson, Ph.D. - Molecular parasitology.</p> <p>Frederick D. Quinn, Ph.D. - Tuberculosis/mycobacterial pathogenesis.</p> <p>Susan Sanchez, Ph.D. - Molecular mechanisms and epidemiology of antibiotic resistance.</p> <p>David E. Stallknecht, Ph.D. - Wildlife diseases, epidemiology.</p> <p>David Suarez, Ph.D. - Influenza pathogenesis.</p> <p>Ralph A. Tripp, Ph.D. - Viral immunology and vaccine development.</p> <p>Richard E. Wooley, D.V.M., Ph.D. - Antibiotic potentiation, microbial pathogenesis.</p>
<b>PATHOLOGY</b>	<p>Cathy A. Brown, V.M.D., Ph.D. - Progression of chronic renal disease, infectious diseases, and diagnostic pathology.</p> <p>Corrie C. Brown, D.V.M., Ph.D. - Infectious diseases of food-producing animals, foreign animal diseases.</p> <p>K. Paige Carmichael, D.V.M., Ph.D. - Spontaneous animal models of human neurologic disease; neuropathology, ocular diseases.</p> <p>Paula J. Fedorka -Cray, B.S., M.S., Ph.D. - Food and Production Animal Microbiology.</p> <p>John R. Fischer, D.V.M., Ph.D. - Pathology, virulence mechanisms, and population effects of diseases in wildlife.</p> <p>Zhen Fu, D.V.M., Ph.D. - Molecular pathogenesis of rabies.</p> <p><b>Jaroslava T. Halper, M.D., Ph.D. - Growth factors and neoplasia, wound healing. (706)542-5830 <a href="mailto:jhalper@vet.uga.edu">jhalper@vet.uga.edu</a></b></p> <p>Barry G. Harmon, D.V.M., Ph.D. - Bacterial pathogenesis, leukocyte biology.</p> <p>Elizabeth W. Howarth, D.V.M., Ph.D. - Wildlife diseases, pathogenesis of viral diseases.</p> <p>Kenneth S. Latimer, D.V.M., Ph.D. - Viral diseases of companion and exotic birds, pathology of fishes, Pelger-Huet anomaly of dogs.</p> <p>Bruce LeRoy, D.V.M., Ph.D. -Clinical Pathology, Prostate Cancer, Bone Metastases</p> <p>Jaganatha V. Mysore, M.V.Sc., Ph.D. - Pathobiology of gastroenteritides, mechanisms of bacterial adhesion and intestinal epithelial cell culture.</p> <p>Sherif Ramzy Zaki, M.S., Ph.D. - Infectious Diseases, Zoonoses, Pathology.</p> <p>David Swayne, D.V.M., M.S., Ph.D. - Renal diseases associated with infectious and non-infectious etiologies.</p> <p>Elizabeth Uhl, D.V.M., Ph.D. -Molecular pathology; role of transcription factors in susceptibility and resistance to disease.</p>
<b>PHYSIOLOGY &amp; PHARMACOLOGY</b>	<p>Scott A. Brown, V.M.D., Ph.D. - Biology of renal microvasculature.</p> <p>Julie A. Coffield, D.V.M., Ph.D. - Toxicology, neurology.</p> <p>Gaylen L. Edwards, D.V.M., Ph.D. - Neural control of ingestive behavior, motivation and reward.</p> <p>Duncan C. Ferguson, V.M.D., Ph.D. - Thyroid hormone metabolism and action, clinical pharmacology.</p> <p>Margarethe Hoenig, D.M.V., Ph.D. - Endocrinology and clinical pharmacology.</p> <p>Stephen J. Lewis, Ph.D. - Mechanisms regulating vascular tone.</p> <p><b>Royal A. McGraw, Ph.D. - Mammalian molecular genetics, DNA technology. (706)542-0661 <a href="mailto:mcgraw@uga.edu">mcgraw@uga.edu</a></b></p> <p>Thomas F. Murray, Ph.D. - Molecular mechanisms of neuroactive drugs and toxins.</p> <p>Sherry L. Sanderson, D.V.M., Ph.D. – Nutritional management in health and disease, urology and nephrology.</p> <p>Raghubir P. Sharma, B.V.Sc., Ph.D. - Molecular mechanisms in toxicology.</p> <p>John J. Wagner, Ph.D. - Mechanisms of neuroplasticity and drugs of abuse.</p>
<b>SMALL ANIMAL MEDICINE &amp; SURGERY</b>	<p>Dennis N. Aron, D.V.M. - Orthopedic surgery, neurosurgery, plastic and reconstructive.</p> <p>Jeanne A. Barsanti, D.V.M., M.S. - Renal pathophysiology, urology.</p> <p>Steven C. Budsberg, D.V.M., M.S. - Gait analysis and osteoarthritis.</p> <p>Karen Cornell, D.V.M., Ph.D. – Cancer research, mechanisms of metastasis.</p> <p>Craig E. Greene, D.V.M., M.S. - Infectious diseases, bleeding disorders.</p> <p>MaryAnn Radlinsky, D.V.M., M.S. Minimally invasive surgery, upper respiratory diseases.</p> <p><b>Branson W. Ritchie, D.V.M., Ph.D. - Viral diseases of companion birds, zoo animal medicine. (706)542-6484 <a href="mailto:britchie@vet.uga.edu">britchie@vet.uga.edu</a></b></p>