

College of Veterinary Medicine

At a glance. . .

Academic Degrees Offered

- Doctor of Veterinary Medicine (DVM)
- Master of Science / Doctor of Philosophy in Comparative Biomedical Sciences, Fisheries & Wildlife, Immunology, Physiology
- Master of Veterinary Public Health
- Master of Specialized Veterinary Medicine
- Combined DVM/MBA
- Combined DVM/PhD

Departments

- Department of Clinical Sciences
- Department of Molecular Biomedical Sciences
- Department of Population Health & Pathobiology

CVM Community

- The CVM involves some 155 faculty, 400 staff members, and enrolls 312 DVM students, 146 graduate students, and 81 interns and residents.
- CVM faculty members are involved in public engagement activities; research with practical applications for animals, agribusiness, and human health; and preparing future veterinarians to care for domestic and wild animals or careers in food safety, biomedical research, investigating animal-to-human diseases, and general public health.

Centennial Biomedical Campus (CBC)

- With a strong foundation created by the CVM, the CBC is an extension of the original NC State Centennial Campus concept. The CBC emphasizes collaborative research partnerships among academic, government, and industry scientists to advance knowledge and practical applications that improve the health of animals and people.

Research

- The 100,000-square foot College Research Building includes 33 state-of-the-art labs plus two advanced BioSafety Level 3 labs for infectious disease research. Some 190 faculty researchers, research technicians, and graduate students

conduct leading-edge investigations in genomic sciences, gene therapy, vaccine development, creation of diagnostic tests, new cancer immunotherapy, and genetic research to prevent diseases in livestock and companion animals.

- Individual centers, institutes, programs, and labs conduct clinical and basic research on a broad range of veterinary medicine topics.
- The goal of the Center for Comparative Medicine and Translational Research (CCMTR) is to enhance collaborative, interdisciplinary approaches for the comparative study of animal and human diseases by developing mechanisms that encourage and facilitate interactions between the clinical and basic research scientists within the CVM, NC State, and external partners. At present, the CCMTR has more than 100 faculty research scientists representing 18 departments from five NC State colleges.
- Annual research expenditures exceed \$12 million.

Public Engagement

- The CVM is engaged in numerous public service support activities through a multitude of programs, projects, centers, and activities that support both animal and human health, agriculture business concerns, and the environment.
- The Community-Campus Partnership offers a range of veterinary services to our surrounding communities, while providing opportunities for students to practice routine surgical procedures, and diagnose and treat common diseases of dogs and cats.
- The CVM Office of Continuing Education and Outreach offers some 40 continuing education workshops, professional training seminars, conferences, and public workshops annually.

Veterinary Health Complex (VHC)

- Established in 1983, the VHC is one of the highest rated regional academic veterinary medical centers in the country. The three VHC medical centers and the CVM satellite and field operations offer more than 17 clinical services staffed by board certified specialists, many of whom are recognized nationally or

over

internationally. The VHC partners with veterinarians and animal organizations that refer difficult cases to VHC specialists for consults, diagnosis, and treatment. This partnership is designed to provide expert and seamless healthcare for a broad range of animal patients.

Randall B. Terry, Jr. Companion Animal Veterinary Medical Center (Terry Center)

- With focus on patient care, client comfort, and staff efficiency, the Terry Center is designed to help clinicians exceed expectations for state-of-the-art specialty health care for companion animals. At 110,000-square-feet, the facility is one of the nation's largest veterinary hospitals. The heart of the new (2011) Terry Center remains an outstanding medical community of 123 faculty members, 83 house officers, 179 staff members and some 115 students.

Equine and Farm Animal Veterinary Center

- The Equine and Farm Animal Veterinary Medical Center specializes in the diagnosis and treatment of medical and surgical disorders in horses, as well as sheep, goats, cattle, and llamas.

Veterinary Health and Wellness Center

- The Veterinary Health and Wellness Center offers specialty services such as behavior, nutrition, dentistry, and rehabilitation to pet owners.

Satellite and Field Veterinary Services

- The Satellite and Field Veterinary Services include the Equine Health Center at Southern Pines, the Center for Marine Sciences and Technology, Zoologic Medicine Service, and Farm Animal Field Service.

Alumni

- The College has granted more than 1,700 DVM degrees since the first graduating class in 1985.
- College alumni are involved in leadership positions supporting such economic considerations as:
 - Estimated \$11.1 billion spent in U.S. on veterinary care for pets in 2008,
 - The NC equine industry has a total economic impact of \$1.9 billion annually,
 - Animal agriculture accounts for 60% of total farm cash receipts in NC.

Financial Support

- The College's Campaign for Animal Health and Welfare raised \$6.3 million for student scholarships and fellowships; \$12.8 million for endowed professorships, assistant professorships,

and fellowships; \$19.8 for research investigations into animal and human health; \$22.3 million for innovative programs; \$1.8 million for emerging opportunities; and \$33 million for the Randall B. Terry, Jr. Companion Animal Veterinary Medical Center.

Fast Facts

- *U.S. News and World Report* ranks the NC State CVM as third among the nation's 28 colleges of veterinary medicine.
- The **House Officer** specialty training program and research funding rank among the top five schools, and its faculty-student ratio is near the top.
- One of two national centers for the **Food Animal Residue Avoidance Databank (FARAD)** is located at the College. FARAD has been protecting drug residues from entering food animals and the public food supply for some 20 years.
- The national **Food Safety Research and Response Network (FSRRN)**, a USDA project involving 22 universities, was initiated by Dr. Jay Levine. FSRRN seeks to protect the U.S. food supply from pre-harvest food pathogens and the after-effects of agriculture bioterrorism.
- The College is the only academic clinic location in the country where dog owners can obtain a **bone marrow transplant** for their pets.
- The College has a working, on-campus 80-acre farm, also known as the **Teaching Animal Unit (TAU)**. The TAU is a dynamic teaching lab for veterinary students to learn husbandry, production management, and routine procedures used in livestock production.
- In a unique partnership with the College of Engineering, the College of Veterinary Medicine has **pioneered an orthopedic surgery procedure** called osseointegration, which fuses a prosthetic limb with an animal's bone and may one day benefit humans who lose limbs through combat, accidents, or disease.
- **CVM researchers helped map the canine genome** and are involved in numerous "One Health" genetic studies investigating the connections between the environment and human and animal health.

www.cvm.ncsu.edu

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