Comparative Biomedical Sciences (CBS)

Welcome we invite you to explore our website and learn about our multi-disciplinary graduate training and research programs, the unique opportunities at NC State University and the Research Triangle Park of North Carolina, and the great students, faculty and staff that make all this happen!

To apply for admission, visit the NC State University Graduate School On-Line Application at: applygrad

The Comparative Biomedical Sciences Graduate Program is a multidisciplinary graduate program with faculty who are employing state-of-the-art techniques to address a number of interesting scientific problems in the basic and applied biomedical sciences. The Comparative Biomedical Sciences Graduate Program is offered through the College of Veterinary Medicine at North Carolina State University and confers Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) degrees.

The objectives of the CBS graduate program are:

1. To train students to (1) conduct independent research in basic and/or applied biomedical sciences in their area of specialization, (2) have a fundamental and broad-based interdisciplinary knowledge of animal and human health related biomedical sciences, and (3) develop critical thinking, oral and written communication, leadership as well as team skills, and (4) to excel as teachers of biomedical science.

2. To prepare students for competitive careers at academic institutions, government and non-profit agencies, or private industry.

3. To establish the CBS program as a premier comparative biomedical training program at the national and international level including the training of veterinarians as clinician-scientists.

Students have the opportunity to select from one of five concentration areas for their graduate research: Cell Biology, Pharmacology, Pathology, Infectious Diseases, and Population Medicine. The faculty in these areas have joined to offer a flexible program with many interdisciplinary opportunities which can be adapted to meet the needs of an individual student.

Most of our research faculty have laboratories in the main CVM building or the new biomedical Research Building. The 100,000 sq. ft. new building is located directly across from the main building and has a transgenic mouse facility for projects related to mouse and animal genomics.

The Comparative Biomedical Sciences Graduate Program is a unique program by also being able to offer extensive interdisciplinary training...
through highly effective liaisons with graduate faculty at other colleges of North Carolina State University, as well as those of nearby Duke University and the University of North Carolina at Chapel Hill. Many faculty of the CBS graduate program are also members of other University-wide graduate training programs, such as biotechnology, genomics, immunology, physiology, toxicology, and zoology. This provides a large variety of course offerings that embrace a considerable range of subject areas. The College also benefits significantly by active working relationships with adjunct faculty from industries (such as GlaxoSmithKline and Novartis), research institutes (such as CIIT Centers for Health Research) and federal agencies (National Institute of Environmental Health and Safety and Environmental Protection Agency) within the nearby Research Triangle Park.

NCSU is working to build a community that is inclusive and welcoming to all people, including those with disabilities. For more information about eligibility, documentation, and accommodations please visit http://www.ncsu.edu/equal_op/dss