

PRE-PROFESSIONAL PROGRAMS: VETERINARY MEDICINE

Description: Veterinarians play a big role in healthcare of pets and livestock, sporting, zoo and laboratory animals. Some use their skills to protect humans against diseases that animals carry and conduct clinical research on humans and animal health problems. Others work in basic research, broaden the scope of fundamental theoretical knowledge and develop new ways to use knowledge in applied research.

Program Length: 4 years

Admission Requirements:

- **Important! Check with the veterinarian school of your choice for regarding specific prerequisites; as some as different or additional requirements than those listed.**
- Some schools require applicants only have 90 semester hours and pre-requisites courses to apply, however others prefer a bachelor's degree. (Common majors are related to animals, but also Chemistry and Biochemistry)
- In 2005-2006, North Carolina residents applying to NCSU had a cumulative GPA was 3.0. Required course GPA 3.3, Required GPA on last 45 hours of course work, 3.3
- Take the Graduate Record Exam (GRE)
- A grade of C- or higher is required in all prerequisites courses
- Complete application package; some schools require that completion of the centralized application service VMACAS
- To be a competitive applicant a student should consider obtaining some of the following experiences as an undergraduate: volunteer work, shadowing, employment in a veterinarian's office or other animal setting, undergraduate research, study abroad, involvement and leadership experience in community or student organizations. See below for additional requirements at NC State.

<u>Pre-requisite Courses</u>	<u>Hours</u>	<u>ECU Equivalent</u>
General Biology with labs	(8)	BIOL 1100, 1101/BIOL 1200, 1201
Genetics	(3)	BIOL 2300
Microbiology with lab	(4)	BIOL 3320, 3321
Biochemistry with lab	(4)	BIOL5800, 5821
General Chemistry with labs	(8)	CHEM 1150, 1151/CHEM 1160, 1161
Organic Chemistry with labs	(8)	CHEM 2750, 2753, CHEM 2760, 2763
Biological Chemistry with lab	(4)	CHEM 2770, 2771
General Physics with labs	(8)	PHYS 1250, 1251, PHYS 1260, 1261
College Algebra	(3)	MATH 1065
Calculus for Life Sciences 1 or Calculus for Life Sciences 2 or Logic	(3)	MATH 2121 or MATH 2122 or PHIL 1500
Elementary Statistics	(3)	MATH 2228
6 semester hours of business	(6)	No specific course is required
6 semester hours of compositional writing, public speaking, or communications	(6)	No specific course is required
6 semester hours of humanities and Social Science	(6)	No specific course is required
3 semester hours of animal nutrition	(3)	No equivalent course is offered at ECU

Veterinarian School Information

North Carolina State University (NCSU) www.cvm.ncsu.edu

Online Resources

American Veterinary Medical Association www.avma.org

Association of American Veterinary Medical Colleges www.aavmc.org

Additional Information for NC State:

Veterinary Experience A minimum of 400 hours of clinical, medical, agribusiness, health science or research experience is required. However, supervised experiences in three or more different areas are highly recommended for a competitive application. Experience in three (3) different areas (small animal, large animal, research, food animal production, exotic, aquatic, wildlife, zoological medicine, etc.) of the veterinary medical profession is preferred. The work can be either paid or voluntary and must be completed under the supervision of a veterinarian (or PhD scientist if scientific research). Applicants will be evaluated on duration, level of duties, and diversity of the experiences.

Animal Experience All other animal related experiences will also be evaluated, such as working with livestock, breeding/ showing dogs or similar, working at a zoo, aquarium or pet shop, equestrian activities, volunteer time at an animal shelter/rescue, etc., and these should be included in the "Animal Experience" section of the VMCAS application. Like veterinary experience, animal experience will be evaluated on duration with at least 100 hours or more contact time highly recommended.

Three recommendations are required:

*Two recommendations (2) must be from veterinarians or PhD scientists with whom the applicant has worked in a veterinary or research setting. The letters must describe the nature of the work relationship. The third letter can be from an academic advisor or other evaluator of the applicant's choosing. Evaluations should support experiences listed and validate maturity, commitment and work ethic with specific examples. The admissions committee may contact references directly if further information or clarification is required. You will be asked to provide contact information for veterinarians with whom you have worked who did not provide a written VMCAS Applicant Evaluation form.