

Doctor of Veterinary Medicine Program

The academic professional program calls for two phases of education: a preclinical three-year phase and a clinical phase in the fourth year of training. The first through the third years of the professional program are concerned with a gradual progression from a basic science presentation to a more clinical application of veterinary science. Two summer-vacation periods are allowed in the first three years of the professional program.

The clinical program at NC State Veterinary Medicine provides a heavy emphasis for actual “hands-on” clinical practice and is demanding both physically and mentally. Students select “focus areas” to increase their depth of training in their intended area of post-graduate activity, while still retaining a broad based veterinary education. There are ten focus areas from which to choose:

- Clinician Scientist
- Epidemiology, Public Health, and Public Policy
- Equine Practice
- Food Animal
- Laboratory Animal Medicine
- Mixed Animal Practice
- Pathology
- Small Animal Practice
- Small and Exotic Animal Medicine
- Zoological Medicine

In the first year, a DVM student will be able to describe the evolution, development, function and identification of normal microscopic and gross anatomy, explain the physiological and biochemical basis for common tests used in the diagnostic process, and learn how to effectively communicate in small groups in a professional veterinary context.

Course	Title	Hours
First Year		
Fall Semester		
VMC 910	Careers in Veterinary Medicine	1
VMB 911	Veterinary Anatomy I	5
VMB 912	Introduction to Clinical Problem Solving in Veterinary Practice	2
VMB 913	Veterinary Physiology I	4
VMB 914	Histology and Cytology	2
VMC 914	Group Communication in Veterinary Medicine	1
VMP 910	Infection and Immunity 1	3
VMP 916	Health Maintenance and Animal Production I	1
	Hours	19
Spring Semester		
VMB 920	Small Group Problem Solving in Veterinary Medicine	1
VMB 921	Veterinary Comparative Anatomy	4
VMB 923	Veterinary Physiology II	4
VMC 927	Introduction to Companion Animal Behavior	2

VMP 916	Health Maintenance and Animal Production I	1
VMP 920	Infection and Immunity 2	4
VMP 921	Problem Solving for Cases in Infectious Diseases and Immunity 1	2
VMC 937	Introduction to Physical Examination Skills- Small Animal	1
	Hours	19
	Total Hours	38

Course	Title	Hours
Second Year		
Fall Semester		
VMB 930	Anesthesiology	2
VMB 931	Veterinary Ethics and Animal Welfare	2
VMB 932	Veterinary Medical Decision Making	1
VMB 933	Veterinary Pharmacology I	3
VMB 936	Introduction to Radiology	1
VMC 932	Principles of Surgery	3
VMP 930	Infection and Immunity 3	3
VMP 931	Veterinary Pathology I	3
VMP 934	Problem Solving for Cases in Infectious Diseases & Immunity 2	2
VMP 936	Health Maintenance and Animal Production II	1
	Hours	21
Spring Semester		
VMB 943	Veterinary Pharmacology II	3
VMB 944	Veterinary Toxicology and Poisonous Plants	2
VMC 942	Principles of Medicine	2
VMC 943	Laboratory Animal and Zoological Species Health and Disease I	1
VMC 944	Introduction to Clinical and Professional Communication	1
VMP 936	Health Maintenance and Animal Production II	1
VMP 941	Veterinary Pathology II	4
VMP 942	Veterinary Clinical Pathology	3
VMP 945	Epidemiology & Public Health	3
	Hours	20
	Total Hours	41

Course	Title	Hours
Third Year		
Fall Semester		
VMB 952	Specialized Problem Solving in Veterinary Medicine	1
VMC 951	Companion Animal Medicine and Surgery I	4
VMC 952	Equine Medicine and Surgery	3
VMC 953	Laboratory Animal and Zoological Species Health and Disease II	3
VMC 956	Advanced Clinical and Professional Communication	1

VMC 957	Introduction to Clinical Practice	1
VMC 933	Theriogenology	2
VMP 956	Health Maintenance and Animal Production III	1
	Hours	16
Spring Semester		
VMB 960	Veterinary Radiology and Radiobiology	2
VMB 961	Success in the Clinics and Beyond	1
VMB 965	Veterinary Nutritional Health	2
VMC 961	Companion Animal Medicine and Surgery II	3
VMC 965	Advanced Principles of Surgery	1
VMP 962	Ruminant Medicine	3
VMP 964	Swine and Poultry Medicine	2
	Hours	14
	Total Hours	30

Fourth-year students must complete required and elective rotations that vary depending on the students' selected focus area (<https://cvm.ncsu.edu/education/dvm/program/focus-areas/>). Students must complete 43 credits in the senior year: 40 credits of clinical rotations and three credits in Clinical Conference. The clinic year consists of 24 blocks, two-to-three weeks in length, with up to four vacation blocks and three extramural experiences (Clinician Scientist, Epidemiology, & Food Animal Focus Areas have different extramural requirements). A total of 168 credit hours are required for graduation. Clinical Conference presentations are required of each senior.

The clinic scheduling process begins in fall of third year with information sessions with senior clinicians and/or clinical coordinators, Academic Affairs, and Students Services.

Code	Title	Hours
VMC 996	Advanced Avian Clinical Medicine	2
VMC 959	Advanced Primate Medicine	2-4
VMC 958	Advanced Prosimian Medicine	2
VMP 975	Advanced Topics in Veterinary Anatomic Pathology	1-6
VMB 977	Clinical Anesthesia Rotation	2
VMC 998	Basic Wildlife Rehabilitation Medicine	2
VMC 972	Clinical Small Animal Veterinary Cardiology	2
VMB 978	Clinical Behavior & Nutrition	2
VMC 995	Clinical Conference	1
VMP 978	Clinical Pathology and Laboratory Medicine	2
VMB 962	Clinician Scientist Research Experience	1-10
VMC 983	Dermatology	2
VMP 979	Epidemiology	2
VMC 966	Equine Emergency and Critical Care	2
VMC 978	Equine Lameness and Imaging	2
VMC 979	Equine Medicine	2
VMC 968	Equine Orthopedic Surgery and Lameness	2
VMC 949	Equine Primary Care	4
VMC 993	Equine Special Topics	2
VMC 975	Equine General Surgery	2
VMC 988	Exotic Animal Medicine	2
VMC 946	Extramural Business Management Experience	2

VMC 955	Extramural Experiences in Lab An Med	2
VMP 994	Extramural Experience in Pathology	1-4
VMC 994	Small Animal 4th Year Extramural Studies	1-6
VMC 963	Extramural Experience in Zoological Medicine	2
VMP 971	Food Animal Diagnostics for Disease Diagnosis, Control, and Population Surveillance	2
VMP 976	Food Animal Pharmacology	2
VMP 977	Autopsy/ Clinical Pharmacology	2
VMP 974	Food Supply Veterinary Medicine	2
VMC 939	General Limited Small Animal Practice	2
VMC 981	Lab Animal Medicine	2
VMC 974	Equine Dentistry and Podiatry	2
VMC 986	Adv Com An Int Med	2
VMC 971	Comp Animal Med II	4
VMC 954	Companion Animal Medicine for Food Animal Students	2
VMC 984	Intro Clin Neuro	2
VMC 980	Vet Clini Oncology	2
VMC 982	Ophthalmology	2
VMP 982	Poultry Health Management I	2
VMP 983	Poultry Health Management II	2
VMC 948	Clinical Rotation in Veterinary Radiation Oncology	2
VMB 976	Radiology Rotation	2
VMC 997	Raptor Medicine and Rehabilitation	2
VMC 930	Rehabilitation and Mobility Clinical Rotation	2
VMP 970	Ruminant Health Management I	2
VMP 972	Ruminant Health Management II	2
VMP 987	Ruminant Topics	2
VMC 950	Sea Turtle Medicine and Rehabilitation	2
VMC 960	Small Animal Emergency Service	2
VMC 973	Small Animal Surgery (Topics Include: Small Animal General Surgery; Small Animal Orthopedic Surgery)	2
VMP 973	Special Topics in Epidemiology	2
VMC 941	Special Topics in Theriogenology	2
VMP 984	Swine Health Management I	2
VMP 985	Swine Medicine & Production II	2
VMC 940	Clinical Theriogenology	2
VMB 976	Radiology Rotation (Ultrasound)	2
VMC 976	Veterinary Critical Care	2
VMP 999	Extramural in Vet International Programs	2
VMC 964	Zoological Husbandry and Nutrition	2
VMC 989	Zoological Medicine	4
VMC 947	Practice Management: Evaluating the workflow, services, and financial performance of a hospital	2
VMP 990	Extramural Experiences - Large Animal (Topics include: Extramural Experiences in Equine; Extramural Experiences in Food Animal/Mixed Animal)	2