

Doctor of Naturopathic Animal Science (D.N.A.Sc.)

Course Descriptions

Natural Health Philosophy

4 Credit Hours

This course gives you an initial introduction to naturopathic medicine and its general application. You will be given a general overview of the practical application of naturopathy in reference to animal healthcare.

Animal Health Terminology

4 Credit Hours

Specific terminology for a naturopathic practice will be learned in this course. Also, you will learn the Latin and Greek meanings of words as well as the practical application of what is needed in a clinical environment.

Large Animal Studies

4 Credit Hours

The practical aspect of naturopathy will be covered in this course specific to the bovine, caprine, ovine, and porcine animal. This course is extensive and comprehensive and will cover the detailed aspects of farm animal naturopathy from health challenges and nutrition to supplementation and therapies.

Animal Husbandry

3 Credit Hours.

You learn about various animals such as hogs, chickens, cows, etc. and how they are bred for the production of food. Study how animals are fed, vaccinated, stimulated by growth hormones, and made health for food production. Control over the health of animals is the concern of “animal husbandry.”

Biology-The Science of Life

4 Credit Hours

A great tool for those working in the animal industry. You will learn the cells and basic tissue of an animal along with their body systems and functions, how to care for an animal, how diseases and other illnesses are transmitted, hygiene and nutritional care, first aid, what to do if an animal is hospitalized and how to dispense and administer drugs.

Dangers of Vaccines

4 Credit Hours

This is an eye-opening course on the dangers of vaccines. We have been told to believe that vaccines are for our protection against the many viruses that are just waiting to attack our bodies and that of our animals if we don't have vaccine protection in place. You will journey through the history and institution of vaccines, learn what they are, and what they are not. Most importantly you will discover the truth behind vaccines.

Animal Health Science**3 Credit Hours**

This study deals with cells, tissues, systems, nutrition, species comparison, principles of disease, disease prevention and diagnosis, zoonotic disease, surgery, and economic decision-making in medicine. Also, some of the study teaches the student about clinical practice. Though the textbook is written for veterinarians it is useful for natural practitioners as well.

Equine Animal Studies**4 Credit Hours**

The practical aspect of naturopathy will be covered in this course specific to the equine animal. This course is extensive and comprehensive and will cover the detailed aspects of equine naturopathy from health challenges and nutrition to supplementation and therapies.

Field Crops & Soils**3 Credit Hours**

The agricultural realm of health is the topic of this course. You will learn about the nutritional aspect of foods in reference to the density of soil nutrients and crop requirements. The process of achieving nutritionally sound food products and their relationship to animal health will be obtained.

Anatomy & Physiology I**3 Credit Hours**

In this course, you will study the structure and function of small animal cells, tissues and organ systems. In this course, the canine and feline species will be studied.

Anatomy & Physiology II**3 Credit Hours**

In this course you will study the structure and function of birds, small rodents, and other exotic species.

Carnivore Nutrition**4 Credit Hours**

Most of us know what a carnivore is, or at least we thought we did. In this course you will learn about the proper way to nourish the carnivores that live beside us every single day in our homes. Whether you live with a dog, a cat, a ferret or all of the above, you will learn what our pets need to thrive and not just survive. From an anatomical and physiological viewpoint, you will learn the carnivore facts about cats and dogs; learning why pets fed from the can or packet suffer every day of their lives. With nutrition as the foundation for good health in any species, you're sure to discover the simplicity and beauty of feeding our carnivores in a way that honors their nature allowing them to live with optimal health.

Amino Acids, Fatty Acids, & Enzyme Therapy**4 Credit Hours**

Nutrition is taken to another level in this study. Acquire in-depth knowledge about: Water and its Metabolism, the Animal Body and its Tissues, Carbohydrates and their Metabolism, Proteins, Energy Metabolism, Vitamins, Fat-Soluble Vitamins, Essential Macro-elements, Water-Soluble Vitamin B Complex, Inorganic Elements, Essential Trace Elements, Energy Value of Foods, and Nutritional Aspects of Reproduction and Lactation.

Vitamin Therapy**4 Credit Hours**

You will learn about essential vitamins and their relationship to animal health. You will explore the co-factor interaction of vitamins to other essential elements. Proper uses during supplementation will be explored as to alleviating disease and promoting health and overall wellness.

Mineral & Trace Mineral Therapy**4 Credit Hours**

This course covers various health anomalies and their relationship to the deficiency of minerals and trace minerals. You will learn the essential elements and their co-factors relating to homeostasis. Proper uses during supplementation will be explored as to alleviating disease and promoting health.

Elective (Student's Choice)*4 Credit Hours****The Merck Veterinary Manual I****3 Credit Hours**

In the first part of this advanced study, you will learn about the: Circulatory System, Digestive System, Eyes and Ears, Endocrine System, Generalized Conditions, Immune System, Integumentary System, and Metabolic Disorders of animals. In these sections you will learn to recognize the difference in each disorder and disease; along with which breed each disorder/disease is most commonly found..

The Merck Veterinary Manual II**3 Credit Hours**

The second part of this textbook will cover: Musculoskeletal System, Nervous System, Reproductive System, Respiratory System, Urinary System, Behavior, Clinical Pathology and Procedures, and Emergency Medicine and Critical Care. As in the previous part, you will learn the differences in each disorder/disease, but you will also learn how to react quickly in emergency situations.

The Merck Veterinary Manual III**3 Credit Hours**

The final part of this textbook will cover: Exotic and Laboratory Animals, Management and Nutrition, Pharmacology, Poultry, Toxicology, and Zoonoses. These sections will help strengthen your knowledge and touch base with a variety of species.

Herbal Medicine I**3 Credit Hours**

This course is the initial introduction to various medicinal plants and their specific uses in the realm of therapy. You will learn how to grow, prepare and preserve your own herbs. You will learn the fundamentals of using herbs for animal health enhancement.

Herbal Medicine II

3 Credit Hours

Discover how to treat the root cause of your pet's problem through holistic medicine so they can live a long, healthy, productive life. Everything from vaccines, to cancer, to acupuncture, and more are covered in this concise study to show you how your pet can achieve optimal health.

Animal Homeopathy

3 Credit Hours

Homeopathy, a healing branch of medicine discovered over 200 years ago, has been highly successful with humans and animals. Presently, it is making a "come-back" in America. Discovered by Samuel Hahnemann, a German physician, he used many of the experiments on himself, and had many reported healings when used on his patients. These substances, at times, may be toxic, but when they are produced a certain way for remedies, they become harmless in the body. Substances are made from vegetables, minerals, animals and other sources, which are made from a crude substance or alcohol extract called the mother tincture. The knowledge you have gained from this study may change the way you view homeopathic medicine, and what he can do for animals and humans.

Touch Therapy for Animals

4 Credit Hours

Many veterinarians are now moving from traditional medicine to holistic alternatives. This study gives over 1,000 home remedies to treat your pets' condition. You will learn how to strengthen joints, stop behavioral problems, recognize herbs that fight cancer and much more. This will be a valuable resource for those looking to enter the animal field.

Introduction to Canine/Feline Behavior

4 Credit Hours

The veterinary technician holds a pivotal and key component in the mental health of dogs and cats. This course encompasses learning theory, preventive behavioral services, standardized behavior modification terms and techniques, and veterinary behavior pharmacology.

Clinical Naturopathy

3 Credit Hours

This course is foundational for all you will need to know as a naturopath—for animal and human health. While the text is focused on canines specifically, the principles can be applied to any species. This course will cover the whole health approach of naturopathy for dogs from learning what health is and what it is not, tips on diet, nutrition, exercise, and more. In addition to even giving some tips on breeds and when to seek out a conventional veterinarian, you will learn about the variety of natural therapies available including aromatherapy, chiropractic, acupuncture, herbs, and homeopathy. Lastly, you will learn about the importance of using natural solutions for your home and yards to ensure the long-term good health of your pets.

Flower Essences

3 Credit Hours

From the Bach flower essences used as a specific therapy to various essential oil therapies relating to both large and small animals will be covered in this course. You will learn to incorporate this modality individually with other approaches, or as a specific regimen.

Essential Oils**3 Credit Hours**

This is an intensive, all-inclusive course on the principals, science, use, and application of therapeutic-grade essential oils. In addition, you will learn the botanical family, plant origin, key constituents, ORAC, historical data on individual essential oils and blends. One of the most exciting aspects is learning about the protocols available for nearly every human and animal using therapeutic grade essential oils.

Small Animal Clinical Studies**3 Credit Hours**

The practical aspect of animal naturopathy will be covered in this course specific to the canine and feline animal. This course is extensive and comprehensive and will cover the detailed aspects of small animal naturopathy from health challenges and nutrition to supplementation and therapies.

Parasitology [Study of Parasites in Animals]**3 Credit Hours**

One of the most important studies for the naturopathic animal doctor. You will learn about: Symbiotic relationships, Kinds of Hosts, Ecology and host-parasite relationship, Immunological and Pathological and Biochemical Aspects of Parasitism, the Protozoa, Platyhelminthes: the Flatworms, Nematoda: the Roundworms, Acanthocephala: the Thorny-Headed Worms, Pentastomida: the Tongue Worms, The Arthropoda, Parasitism I other Metazoan Groups, Population Concepts, Factors Influencing Parasite Populations, Influence of Parasites on Hosts Populations, Reproduction and Transmission to Colonization, Communities of Parasites, Biogeographical Aspects, and Evolutionary Aspects.

Practicum**3 Credit Hours**

This study takes you step-by-step through the process of “How to Get Started.” This textbook shows you how to stay out of most legal trouble, present yourself and your practice to clients and the public in a professional manner, understand occupational laws and our current legal environment, know your rights and obligations as a practitioner, choose the best practice options available, create effective disclosure, disclaimer and consent forms based on samples provided, and handle legal problems should they arise.