

---

**VS** **Veterinary Science**

---

**VS 350 INTRODUCTORY ANATOMY, PHYSIOLOGY, AND ANIMAL HYGIENE. (3)**

A study of anatomy and physiology as related to courses in livestock production, judging, nutrition, meats and diseases, and introduction to the basic mechanism of animal disease and the relationship of animal hygiene.

**VS 351 PRINCIPLES OF ANIMAL HYGIENE AND DISEASE CONTROL. (3)**

A study of animal sanitation and disease control management. The course will acquaint students with the more important infectious, toxic, metabolic and parasitic diseases of domestic animals and will emphasize preventive concepts.

**VS 395 SPECIAL PROBLEMS IN VETERINARY SCIENCE. (1-4)**

Prereq: VS 350, 351, and consent of instructor. May be repeated to a maximum of six credits.

**VS 600 ETHICS IN SCIENTIFIC RESEARCH. (2)**

The course will commence with an overview of good laboratory practices and present them as the basis of good scientific research, along with an overview of quality assurance and appropriate practices in data analysis and data interpretation. The course will then move to the ethics of human and animal experimentation and discuss the concepts of data and intellectual property, their ownership and access to them. The problems of reviewing other workers' intellectual property such as grant applications, research papers and other intellectual property will be addressed. Prereq: Research experiences; consent of instructor. (Same as TOX 600.)

**VS 690 PRACTICAL ANALYTICAL TOXICOLOGY. (3)**

An evaluation of techniques for the isolation, identification, and quantitation of drugs, pesticides and other toxicants in biological samples. Concepts and theory will be presented in the lecture portion, while the laboratory will be devoted to actual sample analysis by the students. Lecture, 1 hour; laboratory, six hours. Prereq: Consent of the instructor and graduate standing in toxicology. (Same as TOX 690.)

**VS 748 MASTER'S THESIS RESEARCH. (0)**

Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

**VS 749 DISSERTATION RESEARCH. (0)**

Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

**VS 767 DISSERTATION RESIDENCY CREDIT. (2)**

Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

**VS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE. (1-6)**

Residence credit while completing research and writing thesis. Prereq: Completion of course requirements for the MS. May be repeated to a maximum of 12 hours.

**VS 769 RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE. (0-12)**

May be repeated indefinitely.

**VS 770 VETERINARY SCIENCE SEMINAR. (1)**

Required of graduate students in veterinary science. May be repeated to a maximum of six credits. Prereq: Consent of staff.

**VS 781 CORRELATIVE PATHOLOGY. (1-3)**

Supervised experience in the use of clinical, gross and histopathological technics in the differential and definitive diagnosis of diseases. May be repeated to a maximum of nine credits. Prereq: Pathology in D.V.M. curriculum or equivalent and consent of staff.

**VS 782 ADVANCED VIROLOGY. (3)**

Current trends in virology. Typical topics include DNA tumor viruses, RNA tumor viruses, persistent virus infections, and interference. Emphases of molecular mechanisms. Prereq: BIO 582. Adequate biochemistry and genetics strongly recommended, or consent of instructor. (Same as BIO 782.)

---

**VS**

**Veterinary Science**

---

**VS 785 ADVANCED VETERINARY PARASITOLOGY. (3)**

Experimental methodology and host-parasite relationships of the protozoan and helminth parasites of domestic animals. Prereq: Parasitology in D.V.M. curriculum or equivalent and approval of staff.

**VS 786 ADVANCED VETERINARY PATHOLOGY. (3)**

Specialized instruction in techniques and interpretations of pathology and pathologic anatomy. Emphasis will be upon evaluation of lesions for understanding the pathogenesis of disease processes in the living animal. Prereq: Pathology in D.V.M. curriculum or equivalent and approval of staff.

**VS 791 TECHNIQUES IN VETERINARY MICROBIOLOGY. (1-9)**

Independent research in veterinary microbiology. May be repeated to a maximum of 24 credits. Prereq: Consent of staff.

**VS 792 TECHNIQUES IN GENERAL VETERINARY PATHOLOGY. (1-9)**

Independent research in veterinary pathology. May be repeated to a maximum of 24 credits. Prereq: Consent of staff.