**Courses**

**VMED 7230 CUTANEOUS DISORDERS OF LARGE AND EXOTIC ANIMALS (3)** LEC. 3, IND/LEC. 9-12. In depth review of the common and uncommon dermatologic conditions affecting large animal and exotic animal species, including emphasis on those conditions considered zoonotic.

**VMED 7860 ADVANCED TECHNIQUES IN POPULATION MEDICINE (1)** LEC. 1. SU. Techniques for investigation of disease problems in populations with emphasis on computer software specialized for outbreak investigation and disease mapping.

**VMED 7946 EPIDEMIOLOGY AND ONE HEALTH (3)** LEC. 3. This course will review the principles of epidemiology as they apply to the One Health Initiative. Emphasis will be placed on the rich history of the discipline and how it applies to the one health concept.

**VMED 9000 ORIENTATION TO VETERINARY MEDICINE (0)** SEM. 1. SU. Overview of organized veterinary medicine, history of the profession, professional responsibilities and privileges, and career opportunities within the profession.

**VMED 9010 VETERINARY MEDICAL ETHICS & LAW (1)** LEC. 15. Provide a foundation in veterinary medical ethics and legal issues associated with veterinary medicine. Course may be repeated for a maximum of 6 credit hours.

**VMED 9020 VETERINARY MEDICINE AND THE LAW (1)** LEC. 13. Laws relating to the veterinary profession, public policies, and government regulations.

**VMED 9030 VETERINARY EPIDEMIOLOGY & ZOONOSES (2)** LEC. 30. Basic principles of epidemiology including mechanisms of transmission, disease prevention, diagnosis, and assessment of human health risks. Course may be repeated for a maximum of 6 credit hours.

**VMED 9040 VETERINARY FOOD SAFETY (2)** LEC. 30. Provide a basic awareness of the most common foodborne diseases and methods to protect consumers from foodborne disease. Course may be repeated for a maximum of 6 credit hours.

**VMED 9050 PROFESSIONAL DEVELOPMENT AND BUSINESS FUNDAMENTALS (1)** LEC. 15. Auburn University CVM Professional Development and Business Fundamentals course is a 1 credit-hour course encompassing the study, understanding and application of pertinent business disciplines guiding the decision-making responsibilities of practice owners, veterinarians, veterinary students, veterinary technicians and practice managers that seek to improve profitability and efficiency allowing for a competitive advantage and long term success in their personal and professional careers.

**VMED 9062 CLINICOPATHOLOGY CONFERENCE CRITICAL THINKING (1)** LEC. 14. SU. Review and assessment of material presented in a case-based format by faculty and house officers to develop and refine clinical thinking and critical thinking skills. Course may be repeated with change in topics.

**VMED 9110 PHYSIOLOGY I (5)** LEC. 72. LAB. 3. Cellular, Cardiovascular, Renal, and Respiratory Physiology.

**VMED 9111 VETERINARY ANATOMY I (SMALL ANIMAL) (4)** LEC. 44. LAB. 94. Basic concepts of body structure and small animal gross anatomy with veterinary medical applications. Credit will not be given for both VMED 5111 and VBMS 6111.

**VMED 9120 PHYSIOLOGY II (4)** LEC. 57. Gastrointestinal Physiology, Metabolism, Endocrinology, and Reproductive Physiology.

**VMED 9121 VETERINARY ANATOMY II (3)** LEC. 38. LAB. 57. In-depth study of the gross anatomy of the ox, horse, and minor species with inclusion of clinical relevance.

**VMED 9130 GENETIC AND CELLULAR BASIS OF ANIMAL DISEASE (1)** LEC. 15. One credit course focused on the relationship between genetics and animal diseases.

**VMED 9131 BASIC MICROANATOMY/DOMESTICS ANIMALS (3)** LEC. 15. LAB. 54. Functional comparative microstructure of cells, basic tissues, cardiovascular system, urinary system, skeleton and osteogenesis, respiratory system, and blood of domestic animals.

**VMED 9141 ORGANOLOGY OF DOMESTIC ANIMALS (2)** LEC. 5. LAB. 56. Comparative microstructure of the digestive system, lymphoid system, endocrine system, integumentary system, reproductive system, and placentation of domestic animals.

**VMED 9150 DIAGNOSTIC IMAGING (2)** LEC. 27. LAB. 12. Basic radiographic and ultrasonographic physics; introduction to computed tomography, magnetic resonance imaging, and nuclear imaging.
VMED 9151 VETERINARY NEUROSCIENCES (4) LEC. 44. LAB. 24. Gross and microscopic morphology and physiology of the peripheral and central nervous systems. Course may be repeated for a maximum of 12 credit hours.

VMED 9180 VETERINARY ETHOLOGY (2) LEC. 28. Basic concepts of ethology and other approaches to animal behavior, introduce diagnostic and treatment methods, discuss relevant cases. Course may be repeated for a maximum of 6 credit hours.

VMED 9190 INTRODUCTION TO VETERINARY PHARMACOLOGY (1) LEC. 16. An organized foundation of information to develop clinical thinking skills in veterinary pharmacology. Course may be repeated for a maximum of 16 credit hours.

VMED 9200 VETERINARY PARASITOLOGY I (3) LEC. 37. LAB. 13.5. Platyhelminthes, trematodes, and nematodes of domestic animals.

VMED 9210 VETERINARY PARASITOLOGY II (2) LEC. 17. LAB. 10. Arthropods, protozoa, helminths, and acanthocephalans of domestic animals. Parasiticides.

VMED 9220 PRINCIPLES OF VETERINARY PATHOLOGY (3) LEC. 35. LAB. 20. General principles of pathology and mechanisms of disease processes affecting animals.

VMED 9230 VETERINARY CLINICAL PATHOLOGY (3) LEC. 47. LAB. 8. Laboratory test principles and results interpretations in evaluation of hematopoietic, coagulation, hepatic, renal, gastrointestinal, acid/base and fluid status of animals.

VMED 9240 PRINCIPLES OF VETERINARY IMMUNOLOGY (3) LEC. 41. LAB. 6. Principles underlying the immune system's ability to protect animals from disease and mechanisms by which immune responses contribute to disease.

VMED 9250 VIROLOGY & PRIONS (2) LEC. 23. LAB. 6. Principles of infectious agents and their pathogenic attributes, infectious diseases of animals, and mechanisms of antimicrobial agents. Course may be repeated for a maximum of 6 credit hours.

VMED 9260 VETERINARY PHARMACOLOGY (3) LEC. 45. LAB. 8. Overview of drugs relevant to veterinary practice; pharmacodynamics, pharmacokinetics, clinical application.

VMED 9262 CLINICAL PHARMACOLOGY AND THERAPEUTICS (1) LAB. 20. Use of group based discussion to create therapeutic plan for specific patients with a target disease. Satisfactory advancement into the second of the professional (DVM) program.

VMED 9270 INTRODUCTION TO CYTOLOGY (1) LEC. 3. LAB. 10. The principles and practice of evaluation of blood films, cytologic preparations, and urine sediments from various veterinary species.

VMED 9280 BACTERIOLOGY & MYCOLOGY (3) LEC. 34. LAB. 20. Veterinary bacterial and fungal pathogens, diseases caused by each, prevention, treatment and presumptive laboratory diagnoses. Course may be repeated for a maximum of 9 credit hours.

VMED 9301 PHYSICAL DIAGNOSES OF LARGE AND SMALL ANIMALS (2) LEC. 18. LAB. 30. Basic approach to physical examination of large and small animals.

VMED 9310 INTRODUCTION TO SURGERY (2) LEC. 18. LAB. 19.5. Current standing in the DVM professional curriculum and completion of the first 3 semesters of the professional program. Introduction to the fundamental principles and techniques of veterinary surgery.

VMED 9311 SURGICAL PRACTICUM (1) LEC. 1. LAB. 16. Aseptic technique, instrument handling, suture patterns, surgical ties, anesthetic administration/monitoring, surgical incision/tissue handling, wound closure, postoperative patient management.

VMED 9320 LARGE ANIMAL NUTRITION (2) LEC. 28. LAB. 4. Proper nutrition for health and disease prevention and treatment in large animals in different stages of life. May count either VMED 5320 or VMED 5420. Course may be repeated for a maximum of 6 credit hours.

VMED 9330 EXOTIC COMPANION ANIMAL MEDICINE (2) LEC. 30. Care, diagnosis, and treatment of exotic companion animals. May count either VMED 5330 or VMED 5430. Course may be repeated for a maximum of 6 credit hours.

VMED 9340 EMERGENCY MEDICINE AND CRITICAL CARE (2) LEC. 28. Emergency presentations, critical care management.

VMED 9350 VETERINARY TOXICOLOGY (2) LEC. 30. LAB. 15. Poisons and poisonous plants affecting large and small animals, chemical properties, signs, lesions, diagnosis, treatment.

VMED 9360 PRODUCTION PREVENTATIVE MEDICINE (3) LEC. 57. Principles of disease prevention and maximization of production application of food safety principles.
VMED 9370 ONCOLOGY (1) LEC. 17. Diagnostic and therapeutic measures used to manage animals with oncologic diseases.

VMED 9380 PHYSICAL DIAGNOSIS II (1) LEC. 4. LAB. 14. Continued experience in the performance of routine physical examination in small and large animal species. Satisfactory advancement into the second year of the professional (DVM) program.

VMED 9410 APPLIED CLINICAL IMAGING (2) LEC. 2. Define and describe abnormalities of various systems detected through imaging. Course may be repeated for a maximum of 6 credit hours.

VMED 9420 SMALL ANIMAL NUTRITION (2) LEC. 28. LAB. 4. Proper nutrition for health and disease prevention and treatment in large animals in different stages of life. May count either VMED 9320 or VMED 9420. Course may be repeated for a maximum of 6 credit hours.

VMED 9430 POULTRY MEDICINE (2) LEC. 30. The care, diagnosis, and treatment of poultry. May count either VMED 9330 or VMED 9430. Course may be repeated for a maximum of 6 credit hours.

VMED 9480 VETERINARY SERVICE LEARNING AND OUTREACH (2) LEC. 2. SU. This course is designed to introduce the future veterinarian to the challenges and rewards associated with provision of veterinary health care to underserved communities. It will consist of didactic lectures intended to stimulate dialogue with key partners and with service experiences that will help the student progressively build the confidence, skills and knowledge necessary to provide veterinary services to underserved communities.

VMED 9500 SPECIALIZED TOPICS IN VETERINARY MEDICINE (2) LEC. 30. Focused instruction on topics of interest in veterinary medicine. Course may be repeated for a maximum of 8 credit hours.

VMED 9502 CURRENT TOPICS IN VETERINARY MEDICINE (1) LEC. 1. SU. Emerging topics in veterinary medicine, current literature. Course may be repeated for a maximum of 15 credit hours.

VMED 9510 HEMOLYMPH/INTEGUMENTARY SYSTEM (1) LEC. 15. LAB. 6. Diagnosis, treatment and prevention of diseases affecting the integumentary and hemolymphatic systems. Course may be repeated for a maximum of 3 credit hours.

VMED 9520 CARDIOVASCULAR SYSTEM (2) LEC. 25. LAB. 13. Pathophysiology, pathologic lesions, radiographic and ultrasonographic lesions, diagnosis, treatment and prevention of diseases affecting the cardiovascular system.

VMED 9530 RESPIRATORY SYSTEM (3) LEC. 41. Pathophysiology, pathologic lesions, radiographic and ultrasonographic lesions, diagnosis, treatment and prevention of diseases affecting the respiratory system.

VMED 9540 SMALL ANIMAL ALIMENTARY SYSTEM (2) LEC. 34. Pathophysiology, pathologic lesions, radiographic and ultrasonographic lesions, diagnosis, treatment and prevention of diseases affecting the alimentary system. Course may be repeated for a maximum of 6 credit hours.

VMED 9550 URINARY SYSTEM (2) LEC. 29. Pathophysiology, pathologic lesions, radiographic and ultrasonographic lesions, diagnosis, treatment, and prevention of disease affecting the urinary system.

VMED 9560 ENDOCRINE SYSTEM (2) LEC. 25. Pathophysiology, pathologic lesions, diagnosis, treatment and prevention of diseases of the endocrine system.

VMED 9570 REPRODUCTIVE SYSTEM (4) LEC. 66. Pathophysiology, pathologic lesions, radiographic and ultrasonographic lesions, diagnosis, treatment; and prevention of diseases of the reproductive system. Course may be repeated for a maximum of 12 credit hours.

VMED 9580 NERVOUS SYSTEM (2) LEC. 36. LAB. 6. Pathophysiology, pathologic lesions, radiographic and ultrasonographic lesions, diagnosis, treatment, and prevention of diseases affecting the nervous system.

VMED 9590 MUSCULOSKELETAL SYSTEM (3) LEC. 42. LAB. 4. Pathophysiology; pathologic, radiographic and ultrasonographic lesions; diagnosis; treatment; and prevention of diseases affecting the musculoskeletal system.

VMED 9601 VETERINARY CLINICAL ROTATIONS (3) LEC. 3. Clinical experiences through various specialty service in the Veterinary Medical Teaching Hospital. Course may be repeated with change in topics.

VMED 9602 RESEARCH PROBLEMS IN BIOMEDICAL SCIENCE (1-10) RES. SU. Research problems in a variety of specialized disciplines for veterinary students and advanced undergraduates.
VMED 9611 VETERINARY CLINICAL ROTATIONS-ELECTIVES (3) LEC. 3. SU. Clinical experiences through various specialty services in the Veterinary Medical Teaching Hospital. Course may be repeated for a maximum of 9 credit hours.

VMED 9621 CLINICAL ROTATIONS IN VETERINARY MEDICINE (2) CLN. 80. Clinical practicum experiences in large and small animal teaching hospitals on the veterinary medical campus. Course may be repeated with change in topics.

VMED 9631 ALTERNATIVE ROTATIONS IN VETERINARY MEDICINE (2) CLN. 80. SU. Clinical practicum experiences in alternative large and small animal experiences as documented in college procedures. Course may be repeated with change in topics.

VMED 9640 LARGE ANIMAL ALIMENTARY SYSTEM (2) LEC. 36. Pathophysiology, pathologic lesions, diagnosis, treatment and prevention of diseases affecting the large animal alimentary system. Course may be repeated for a maximum of 6 credit hours.

VMED 9650 CANINE SPORTS MEDICINE AND REHABILITATION (1) LEC. 1. SU. Activities, requirements, and disorders encountered in canine athletes; role of veterinarian in care and rehabilitation; current research.

VMED 9670 SPECIAL SENSES SYSTEMS (1) LEC. 19. LAB. 4. Common procedures for evaluation, diagnosis and treatment of eye disorders in domestic species are covered to provide basic veterinary ophthalmology knowledge to veterinary students.

VMED 9690 REPTILE AND AMPHIBIAN MEDICINE (1) LEC. 1. SU. Diseases, treatment, husbandry, handling, restraint, examination, sample collection in reptiles and amphibians.

VMED 9700 INTRODUCTION TO ANESTHESIA (3) LEC. 33. LAB. 16. Principles and practices of veterinary anesthesia in large and small animals.

VMED 9710 PRACTICE MANAGEMENT (1) LEC. 1. SU. Fundamental principles of effective client, personnel, practice and business management for the veterinarian.

VMED 9720 DISASTER MEDICINE FOR VETERINARIANS (2) LEC. 1. SU. Pr. (VMED 9111 or VMED 5111). Role of the veterinarian in responding to natural and man made disasters.

VMED 9721 APPLIED ANATOMY I (1) LAB. 3. Pr. VMED 5111 or VMED 9111. Detailed anatomical basis for small animal surgical approaches.

VMED 9731 APPLIED ANATOMY II (1) LAB. 3. Pr. (VMED 9111 or VMED 5111). Detailed anatomical basis for small animal diagnostics and therapeutics.

VMED 9740 APPLIED COMPANION ANIMAL BEHAVIOR (2) LEC. 2. Pr. VMED 9300 or VMED 9180 or VMED 5300 or VMED 5180. Diagnosis, treatment and client education on selected behavior problems in companion animals.

VMED 9741 EQUINE LIMB JOINTS AND FOOT (1) LAB. 3. SU. Pr. VMED 9121 or VMED 5121. A study of the functional anatomy of the joints and foot of the horse fore and hind limbs.

VMED 9750 DIAGNOSTIC VETERINARY ULTRASONOGRAPHY (2) LEC. 2. LAB. 1. Pr. (VMED 9121 or VMED 5121) or (VMED 9150 or VMED 5150). Basic physics, instrumentation, and scanning techniques of ultrasonography. Normal sonographic anatomy correlated with the cross-sectional anatomy of body structures and organs.

VMED 9770 ADVANCED VETERINARY DERMATOLOGY (1) LEC. 1. SU. Pr. VMED 9510 or VMED 5510. Clinical dermatology in a case-based format.

VMED 9790 SMALL ANIMAL WOUND MANAGEMENT AND SURGERY (1) LEC. 1. SU. Pr. (VMED 9510 or VMED 5510) and (VMED 9310 or VMED 5310). Wound management, reconstructive/salvage surgery.

VMED 9800 APPLIED SMALL ANIMAL NEUROLOGY (1) LEC. 1. SU. Clinical management of commonly occurring neurologic diseases of small domestic animals.

VMED 9801 PRECEPTORSHIP (3) LAB. 320. SU. Training in a practice situation under the direct supervision of a veterinarian or, under certain conditions, in specialized programs. Approval of Preceptorship Committee.

VMED 9810 INTEGUMENTARY SYSTEM (2) LEC. 29. LAB. 6. Diagnosis, treatment and prevention of diseases affecting the integumentary system.

VMED 9820 ADVANCED REPRODUCTIVE TECHNIQUES (2) LEC. 2. Pr. VMED 9120. Techniques associated with embryo transfer, fetal sexing, in-vitro fertilization, applied and experimental techniques in cattle emphasized.
VMED 9830 VETERINARY MEDICINE AND THE PUBLIC (1) LEC. 1. SU. News events related to veterinary medicine and the role of the veterinarian in public education and public policy.

VMED 9840 WILDLIFE DISEASES (1) LEC. 1. SU. Control and role of veterinarian in prevention of disease in wild animals, specifically wildlife indigenous to U.S.

VMED 9860 ADVANCED TECHNIQUES IN POPULATION MEDICINE (1) LEC. 1. SU. Techniques for investigation of disease problems in populations with emphasis on computer software specialized for outbreak investigation and disease mapping.

VMED 9880 EQUINE REPRODUCTION (1) LEC. 1. Reproductive physiology, endocrinology, breeding soundness evaluation, breeding management and advanced technologies.

VMED 9950 CLINICOPATHOLOGIC CONFERENCE (1) SEM. 15. SU. Oral presentation of veterinary clinical case or case material.

VMED 9960 SPECIAL PROBLEMS (1) LEC. 1. SU. Introduction to veterinary literature, evaluation of recent articles, references, reports on veterinary medicine.

VMED 9995 VETERINARY CLINICAL ROTATIONS - EXTERNSHIPS (0) CLN. SU. Successful completion of didactic veterinary curriculum. Students will participate in clinical rotations including specialty rotations.