155 Veterinary Technology Careers and Pharmacology for Veterinary special senses.
urogenital, nervous, and endocrine systems and the breeds.
techniques, and behavior of common companion animals.
physical examination, medical management techniques, and behavior of common companion animals.
Recognition of common canine and feline breeds.
165 Large Animal and Laboratory Animal Nursing Care Techniques
Fall. 2(1-2) P: VM 110 and VM 130 and VM 140 R: Open only to Veterinary Technology majors.
Fundamentals of the handling of equine, food animal and laboratory animal species. Breed identification, specimen collection, physical exam, medication administration and other nursing care procedures relevant to the species.
170 Hematology and Immunology for Veterinary Technicians
Spring. 1(0-2) P: VM 110 and VM 120 R: Open only to Veterinary Technology majors.
C: VM 175 concurrently.
Structure and function of normal blood cells, cellular and humoral immunity, mechanisms of hemostasis, blood group serology, transfusion medicine and vaccinology.
175 Clinical Pathology Laboratory I for Veterinary Technicians
Spring. 1(0-2) P: VM 110 and VM 120 R: Open only to Veterinary Technology majors.
C: VM 170 concurrently.
Veterinary clinical pathologic laboratory including diagnostic procedures in hematology, serology and ELISA methodology.
176 Clinical Pathology Laboratory II for Veterinary Technicians
Fall. 1(0-2) P: VM 175 and VM 170 R: Open only to Veterinary Technology majors.
Comprehensive veterinary clinical pathology laboratory, including diagnostic procedures in urology, dermatology, cytology, and advanced methods in hematology.
210 Surgical Nursing for Veterinary Technicians
Fall. 2(2-0) P: VM 160 R: Open only to Veterinary Technology majors. C: VM 215 concurrently or VM 303 concurrently.
Role of the veterinary technician as a member of the veterinary surgical team.
215 Surgical Nursing and Anesthetic Management Laboratory
Fall. 1(0-4) R: Open only to Veterinary Technology majors. C: VM 210 concurrently or VM 303 concurrently.
Principles and techniques in veterinary surgical nursing and anesthesia.
245 Parasitology for Veterinary Technicians
Spring. 2(1-2) P: VM 140 and VM 175 RB: VM 250 R: Open only to Veterinary Technology majors.
Parasites of veterinary and public health importance, including gross and microscopic morphology, transmission, and control.
250 Veterinary Comparative Clinical Physiology
Spring. 4(0-4) P: VM 110 and VM 120 and VM 130 R: Open to undergraduate students in the College of Veterinary Medicine or in the Department of Veterinary Technology.
255 Small Animal Diseases and Management
Fall. 3(3-0) P: VM 160 and VM 170 and VM 250 R: Open only to Veterinary Technology majors.
Pathophysiology, transmission, diagnostic process, clinical management and prevention of canine and feline diseases.
265 Dentistry Techniques for Veterinary Technicians
Spring. 1(0-4) P: VM 215 R: Open only to Veterinary Technology majors.
Veterinary dental techniques and oral cavity assessment for companion animals.
270 Health Care Development for Veterinary Technicians
Spring. 1(0-3) P: VM 210 and VM 215 and VM 255 R: Open only to Veterinary Technology majors.
Service-oriented approach to the health care development in an operational animal care facility.
275 Large Animal Diseases and Management
Spring. 3(3-0) P: VM 165 and VM 170 and VM 250 R: Open only to Veterinary Technology majors.
Diseases, husbandry, preventative health care and client education for equine and food animal species.
285 Clinical Nutrition for Veterinary Technologists
Fall. 1(1-0) P: VM 250 R: Open only to Veterinary Technology majors.
Nutritional assessment and management of common domestic species in veterinary medicine.
290 Special Studies in Veterinary Medicine
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to undergraduate students in the College of Veterinary Medicine. Approval of college.
Faculty-directed individual study on an experimental, theoretical or applied problem. May involve a supervised off-campus experience.
295 Biomedical Research and Regulatory Issues for Veterinary Technologists
Fall. 1(1-0) P: VM 150 R: Open only to Veterinary Technology majors.
Principles and techniques of biomedical research, governance and regulation of animal care and use.
303 Anesthesiology for Veterinary Technicians
Fall. 2(2-0) P: VM 140 and VM 250 R: Open only to Veterinary Technology majors. C: VM 215 concurrently or VM 210 concurrently.
304 Radiology for Veterinary Technicians
Spring. 2(2-0) P: VM 110 and VM 130 R: Open only to Veterinary Technology majors.
Production of radiographs, components of the x-ray machine, use of screens and grids, handling film, imaging quality, film processing, patient positioning, and radiation safety.
305 Hospital Practice Management for Veterinary Technologists
Spring. 2(2-0) P: VM 150 and VM 155 R: Open only to Veterinary Technology majors. Veterinary practice economics, personnel management, inventory control and marketing techniques.
310 Advanced Clinical Pathology Techniques
Spring. 1(0-2) P: VM 175 and VM 170 R: Open only to Veterinary Technology majors.
Advanced cytologic techniques including sample collection, processing and evaluation.
Veterinary Medicine—VM

369 Introduction to Zoo and Aquarium Science
Spring. 3(3-0) Interdepartmental with Fisheries and Wildlife and Landscape Architecture and Zoology. Administered by Zoology. P: BS 110 or LB 144H or BS 148H Fundamentals of zoo and aquarium operations including research, interpretation, design, nutrition, captive breeding, conservation, ethics and management.

410 Veterinary Technology Clerkship in Anesthesiology
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in anesthesiology.

411 Veterinary Technology Clerkship in Radiology
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in radiology.

412 Veterinary Technology Clerkship in Companion Animal Medicine
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical course work. R: Open only to Veterinary Technology majors. Application of principles and techniques in restraint, examination, nursing care, monitoring, and preventive medicine of companion animals.

413 Veterinary Technology Clerkship in Companion Animal Surgery
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in surgical nursing.

414 Veterinary Technology Clerkship in Equine Medicine and Surgery
Fall, Spring. Summer. 3 credits. P: VM 415 RB: Completion of preclinical course work. R: Open only to Veterinary Technology majors. Application of principles and techniques in equine medicine and surgery.

415 Veterinary Technician Clerkship in Food Animal and Equine Medicine and Surgery
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in food animal and equine medicine and surgery.

450 Veterinary Technology Clerkship in Emergency Medicine
Fall, Spring. Summer. 3 credits. P: VM 412 RB: (VM 410 and VM 411 and VM 413) and Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in emergency medicine.

451 Veterinary Technology Clerkship in Cardiology
Fall, Spring. Summer. 3 credits. P: VM 412 RB: (VM 410 and VM 411 and VM 413) and Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in cardiology.

452 Veterinary Technology Clerkship in Neurology
Fall, Spring. Summer. 3 credits. P: VM 412 and VM 413 RB: (VM 410) and Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in neurology and physical therapy.

453 Veterinary Technology Clerkship in Ophthalmology
Fall, Spring. Summer. 3 credits. P: VM 412 and VM 413 RB: (VM 410) and Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in ophthalmology.

454 Veterinary Technology Clerkship in Critical Care
Fall, Spring. Summer. 3 credits. P: VM 412 RB: (VM 410 and VM 411 and VM 413) and Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in critical care.

456 Veterinary Technology Clerkship in Large Animal Anesthesia
Fall, Spring. Summer. 3 credits. P: VM 410 and VM 415 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. SA: VM 460, VM 472 Application of principles and techniques of food animal and equine anesthesia.

457 Veterinary Technology Clerkship in Food Animal Medicine
Fall, Spring. Summer. 3 credits. P: VM 415 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in food animal medicine.

480 Veterinary Technology Clerkship in Clinical Pathology
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in clinical pathology.

482 Veterinary Technology Clerkship in Necropsy
Fall, Spring. Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in post-mortem examination of common domestic species with emphasis on specimen description, collection, and submission.

483 Veterinary Technology Clerkship in Biomedical Research
Fall, Spring. Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: VM 270 and VM 275 and VM 303 and VM 304 RB: (VM 410 and VM 482) and Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in biomedical research involving laboratory animals.

484 Veterinary Technology Clerkship in Zoo and Wildlife Medicine
Fall, Spring. Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: VM 270 and VM 275 and VM 303 and VM 304 RB: (VM 410) or Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in zoo and wildlife medicine.

486 Veterinary Technology Clerkship in Clinical Parasitology
Fall, Spring. Summer. 3 credits. P: VM 245 RB: Completion of preclinical coursework. R: Open only to Veterinary Technology majors. Application of principles and techniques in clinical parasitology.

487 Veterinary Technology Clerkship in Dermatology
Fall, Spring. Summer. 3 credits. RB: Completion of pre-clinical course work. R: Open only to Veterinary Technology majors. Application of principles and techniques in dermatology.

490 Veterinary Technology Clerkship in Special Problems
Fall, Spring. Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of the didactic core curriculum. R: Open only to Veterinary Technology majors. Application of principles and techniques in experimental, therapeutic, or laboratory medicine.

511 Veterinary Clinical Examination and Techniques
Fall. 2(1-2) R: Open to graduate-professional students in the College of Veterinary Medicine. Introduction to history taking, physical examination, and techniques associated with examination of various species.

513 Ethical and Animal Welfare Issues in the Veterinary Profession
Fall. 2(1-2) R: Open to graduate-professional students in the College of Veterinary Medicine. Identifying and communicating ethical challenges and animal welfare issues in the veterinary profession.

514 Comparative Life Stage Nutrition
Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine. Nutritional assessment and management of the physiological stages of growth. Adult maintenance, gestation, lactation, performance, and geriatric concerns of common domestic species.
815  Applied Project in Food Safety  
Fall, Spring, Summer. 6 credits.  P: VM 810  
R: Open to masters students in the Food Safety major or approval of college.  
Faculty directed student project.

816  Food Irradiation  
Fall, Spring. 3 credits. RB: Enrollment in graduate program in related field. R: Open only to master's students in Food Safety or approval of college.  
Principles and practice of the irradiation of food for pathogen reduction, food preservation, and the elimination of pests and insects.

817  Pre-Harvest Food Safety  
Fall, Spring. 3 credits. RB: Enrollment in graduate program in related field. R: Open only to master's students in Food Safety or approval of college.  
Principles for improvement of pre-harvest food safety. Emphasis on microbial, chemical, and toxic hazards. Strategies to reduce pre-harvest risks in many food production species.

818  The Epidemiology of Zoonotic Diseases  
Spring of odd years. 3(3-0) Interdepartmental with Epidemiology. Administered by Epidemiology. RB: EPI 810 R: Open to graduate students in the Epidemiology major or approval of department. SA: HM 818  
Human susceptibility to diseases of animals. Modes of transmission, surveillance, and strategies for prevention of specific zoonotic diseases.

820  Current Topics in Comparative Medicine and Integrative Biology  
Spring. 1 to 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Enrollment in graduate-professional program or graduate program in the biomedical sciences. R: Open to graduate students in the College of Veterinary Medicine.  
Topics in comparative medicine using recently published literature to illustrate concepts.

821  Food Protection and Defense  
Fall, Spring. 3 credits. Interdepartmental with Criminal Justice. Administered by Veterinary Medicine. R: Open only to graduate students in the College of Veterinary Medicine or Food Safety major or Criminal Justice major or approval of college.  
Food systems and criminal justice approaches to prepare for and solve issues related to food safety and defense.

822  Aquatic Animal Medicine  
Fall. 3(2-2) Interdepartmental with Fisheries and Wildlife and Pathobiology and Diagnostic Investigation. Administered by Fisheries and Wildlife. RB: (FW 423) or prior course work in animal ecology, microbiology, parasitology or pathology  
Health management techniques and pathobiological processes relating to the etiology, diagnosis, and control of diseases affecting aquatic animal populations and communities.

828  Food Safety Seminar Series  
Fall, Spring. 1(1-0) Interdepartmental with Agriculture and Natural Resources and Natural Science and Social Science. Administered by Veterinary Medicine. RB: Enrollment in graduate program in related discipline  
Selected current topics covering the broad areas of food safety as they relate to production, processing, transport, microbiology, toxicology, and social and human dimensions.

829  Problems in Food Safety  
Fall. 1(1-0) Interdepartmental with Agriculture and Natural Resources and Natural Science and Social Science. Administered by Veterinary Medicine. RB: Enrollment in graduate program in related discipline  
In-depth discussion of selected problems in food safety.

830  Food Safety Research Methods  
Summer. 3(3-0) R: Open to graduate students in the Food Safety major or approval of college.  
Conducting and interpreting food safety research. Interpretation and critique of the literature, study design, and communication of food safety research.

831  Foodborne Disease Epidemiology for the Professional  
Summer. 3(3-0) R: Open to graduate students in the Food Safety major or approval of college.  
Applied foodborne disease investigation through the use of case studies.

832  Food Safety Disease Control  
Summer. 3(3-0) R: Open to graduate students in the Food Safety major or approval of college.  
Applied approaches to food borne disease control using case studies.

899  Master’s Thesis Research  
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 18 credits in all enrollments for this course.  
Masters thesis research.

999  Doctoral Dissertation Research  
Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course.  
Doctoral dissertation research.