101 Veterinary Medicine in Society
Fall, Spring. 1(1-0)
Role of the veterinary profession in animal and human health. Impact of veterinary medicine on society.

110 Veterinary Medical Terminology
Fall. 1(1-0) R: Approval of college.
Veterinary medical terminology, focusing on fundamental recognition, interpretation and usage of medical terms.

120 Veterinary Comparative Nutrition
Spring. 2(2-0) R: Approval of college.
Energy metabolism, nutrients and nutrient requirements of common domestic species.

130 Comparative Anatomy for Veterinary Technicians
Fall. 2(1-2) P: (Completion of Tier I Writing Requirement and (BS 161 and BS 171)) or LB 145 R: Approval of college. C: VM 250 concurrently.
Gross anatomy of the common animal species encountered in veterinary medicine. Overview of the functional anatomy of the musculoskeletal, digestive, cardiovascular, cutaneous, respiratory, urogenital, nervous, and endocrine systems and the special senses.

140 Pharmacology for Veterinary Technicians
Fall. 2(2-0) P: MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 R: Approval of college.
Fundamentals of characteristics, classification and usage of veterinary pharmaceuticals. Introduction to and application of dosage and formulation calculations.

150 Hospital Procedures and Communication
Fall. 2(2-0) R: Approval of college. C: VM 110 concurrently and VM 140 concurrently.
Development of various modalities of professional and client communication skills.

155 Veterinary Technology Careers and Professional Development
Spring. 1(1-0) R: Approval of college.
Career options in veterinary technology, discussion of professional, ethical and legal considerations. Portfolio development, resume and cover-letter writing skills.

160 Small Animal Nursing Skills
Spring. 3(2-3) P: VM 110 and VM 130 and VM 140 and VM 150
Small animal nursing including principles of restraint, 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 160 and VM 205
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. 2(2-0) P: VM 250 and VM 110 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 250 C: VM 170 concurrently.
Veterinary clinical pathology 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
Comprehensive veterinary clinical pathology laboratory, including diagnostic procedures in urology, dermatology, cytology, and advanced methods in hematology.

205 Preventive Animal Health Care for Veterinary Technicians
Spring. 3(3-0) P: VM 150 and VM 110
Development of husbandry techniques to enhance wellness and reduce the risk of disease, injury and stress in common domestic and exotic animals.

210 Surgical Nursing for Veterinary Technicians
Fall. 2(1-1) P: VM 160 and VM 130 and VM 250 R: Approval of department. C: VM 215 concurrently and 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) P: VM 160 and VM 130 and VM 250 C: VM 210 concurrently and 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 176 and VM 205 RB: VM 250
Parasites of veterinary and public health importance, including gross and microscopic morphology, transmission, and control.

250 Veterinary Comparative Clinical Physiology
Fall. 4(4-0) P: (Completion of Tier I Writing Requirement and (BS 161 and BS 171)) or LB 145 R: Approval of college. C: VM 130 concurrently.

255 Small Animal Diseases and Management
Fall. 3(3-0) P: VM 160 and VM 170 and VM 250 and VM 175
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 and VM 210 and VM 303
Veterinary dental techniques and oral cavity assessment for companion animals.

270 Advanced Skills Development for Veterinary Technicians
Spring. 1(0-3) P: VM 210 and VM 215 and VM 303
Service-oriented approach to health care development in an operational animal care facility.

275 Large Animal Diseases and Management
Spring. 3(3-0) P: VM 165 and VM 250
Diseases, husbandry, preventative health care and client education for equine and food animal species.

285 Clinical Nutrition for Veterinary Technologists
Fall. Spring. 1(1-0) P: VM 255 and VM 120
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: 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 and VM 205
Principles and techniques of biomedical research, governance and regulation of animal care and use.

303 Anesthesiology for Veterinary Technicians
Fall. 2(1-1) P: VM 140 and VM 160 and VM 130 and VM 250 R: Approval of department. C: VM 215 concurrently and VM 210 concurrently.

304 Radiology for Veterinary Technicians
Spring. 2(1-2) P: VM 110 and VM 130
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
Veterinary practice economics, personnel management, inventory control and marketing techniques.

337 Introduction to Foodborne Pathogens
Fall. Summer. 3(3-0) R: Open to graduate students in the Food Safety Major or approval of department.
Microbial classification, growth, genetics, epidemiology, transmission and ecology of major food and waterborne pathogens including bacteria, viruses, parasites, prions and protozoa.
VM—Veterinary Medicine

369 Introduction to Zoo and Aquarium Science
Spring, 3(3-0) Interdepartmental with Fisheries and Wildlife and Integrative Biology and Landscape Architecture. Administered by Integrative Biology. P: BS 162 or LB 144 or BS 182H SA: ZOL 369
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 245 and VM 304 RB: Completion of preclinical coursework.
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 245 and VM 304 RB: Completion of preclinical coursework.
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 245 and VM 304 RB: Completion of pre-clinical course work.
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 245 and VM 304 RB: Application of principles and techniques in surgical nursing.

414 Veterinary Technology Clerkship in Equine Medicine and Surgery
Fall, Spring, Summer. 3 to 6 credits. P: VM 270 and VM 275 and VM 304 RB: Completion of preclinical coursework.
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 to 6 credits. P: VM 270 and VM 275 and VM 304 RB: Application of principles and techniques in food animal and equine medicine and surgery.

452 Veterinary Technology Clerkship in Neurology
Fall, Spring, Summer. 3 credits. P: VM 412 RB: (VM 410 and VM 411 and VM 413) and Completion of preclinical coursework.
Application of principles and techniques in neurology and physical therapy.

453 Veterinary Technology Clerkship in Ophthalmology
Fall, Spring, Summer. 3 credits. P: VM 412 RB: (VM 410 and VM 411 and VM 413) and Completion of preclinical coursework.
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.
Application of principles and techniques in critical care.

455 Veterinary Technology Clerkship in Companion Animal Oncology
Fall, Spring, Summer. 3 credits. P: VM 412 and VM 413 RB: Completion of preclinical coursework.
Application of principles and techniques in companion animal oncology.

456 Veterinary Technology Clerkship in Companion Animal Physical Rehabilitation
Fall, Spring, Summer. 3 credits. P: VM 412 RB: Completion of preclinical coursework.
Application of principles and techniques of companion animal physical rehabilitation, particularly those animals recovering from orthopedic and neurologic injuries and surgeries.

458 Veterinary Technology Clerkship in Companion Animal Diagnostic Ultrasound
Fall, Spring, Summer. 3 credits. P: VM 411 RB: Completion of preclinical coursework.
Application of principles and techniques of Diagnostic Ultrasound.

466 Veterinary Technology Clerkship in Large Animal Anesthesia
Fall, Spring, Summer. 3 credits. P: VM 270 and VM 275 and VM 303 and VM 304 RB: Completion of preclinical coursework.
Application of principles and techniques of food animal and equine anaesthesiology.

500 Veterinary Science I
Fall. 2(1-2) R: Open to graduate-professional students in the College of Veterinary Medicine. Introduction to veterinary science. Evidence based medicine; host, animal and environmental interactions in health.

501 One Health I
Fall. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine. Introduction to one health. Interrelationships among environmental, human, and non-human animal health. Health-professionals team approach to solving health problems.
502 Veterinary Doctoring I  
Fall. 1(0-2) R: Open to graduate-professional students in the College of Veterinary Medicine.
Introduction to professionalism, basic communication skills, effective use of teams, medical ethics, health records, confidentiality, professional use of social media, and safe veterinary practices. Clinical doctoring skills, with emphasis on cutaneous, hematologic, immunologic, reproductive, and respiratory systems in health.

503 Veterinary Career and Practice Management I  
Fall. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine.
Debt, budgets, financial risk assessment, financial planning, career development, work-life balance, and recognizing impaired physical or mental health and the need for professional help.

504 One Health  
Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine.
Veterinary medicine and public health. Introduction to veterinary interactions with the public, including disaster response and crisis communication. Relevant laws, regulations, and regulatory agencies.

505 Veterinary Doctoring II  
Spring. 1(0-2) R: Open to graduate-professional students in the College of Veterinary Medicine.
Professionalism, communication, medical ethics, and social competence, including professional interactions, client communication, history taking, and recognizing cultural differences and their impact. Clinical doctoring skills, with emphasis on cardiovascular, digestive, endocrine, musculoskeletal, nervous, and urinary systems in health.

506 Veterinary Career and Practice Management II  
Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine.
Health teams, leadership, workplace behavior, DVM job market, and the process of securing DVM employment.

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 Lifestage Nutrition  
Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine.

515 Animals in Society  
Fall. 2(1-2) R: Open to graduate-professional students in the College of Veterinary Medicine.
Role of animals and veterinary medicine in society. Intersections of animal behavior, animal welfare, ethics, public health and regulatory medicine.

516 Musculoskeletal System I  
Fall. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the musculoskeletal system in health.

517 Nervous System I  
Fall. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the nervous system in health.

518 Cardiovascular System I  
Fall. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the cardiovascular system in health.

519 Cutaneous System I  
Fall. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the cutaneous system in health.

520 Respiratory System I  
Spring. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the respiratory system in health.

521 Immunologic and Hematologic Systems I  
Spring. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the immunological and hematologic systems in health.

522 Basic Science in Clinical Medicine  
Spring. 1(0-2) R: Open to graduate-professional students in the College of Veterinary Medicine.
Integration of information learned in basic science courses by application to clinical cases.

523 Digestive System I  
Spring. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the digestive system in health.

527 Endocrine System I  
Spring. 3(1-4) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the endocrine system in health.

528 Reproductive System I  
Spring. 2(1-2) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the reproductive system in health.

529 Urinary System I  
Spring. 2(1-2) R: Open to graduate-professional students in the College of Veterinary Medicine.
Structure and function of the urinary system in health.

532 Veterinary Integrative Problem Solving  
Fall. 2(1-2) RB: Completion of Year 1 in the graduate-professional program in the College of Veterinary Medicine.
R: Open to graduate-professional students in the College of Veterinary Medicine.
Integration of subject material from concurrent and previous courses using a problem-based learning format.

533 Veterinary Epidemiology  
Fall. 3(0-3) R: Open to graduate-professional students in the College of Veterinary Medicine.
Basic epidemiologic theory and study design. Veterinary descriptive and inferential biostatistics. Production veterinary medicine.

541 Veterinary Career Development and Practice Management  
Spring. 2(2-0) R: Open to graduate-professional students in the College of Veterinary Medicine.
Foundations of career development and practice management skills.

543 Cardiovascular Diseases  
Spring. 2(2-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine.
R: Open to graduate-professional students in the College of Veterinary Medicine.
Cardiovascular diseases of domestic animals. Pathogenesis, diagnosis, and treatment.

544 Veterinary Public Health  
Fall. 2(2-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine.
R: Open to graduate-professional students in the College of Veterinary Medicine.
Veterinary environmental, occupational, and public health. Milk and meat hygiene. Control of zoonotic diseases.

545 Principles of Anesthesia and Surgery  
Spring. 4(3-2) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine.
R: Open to graduate-professional students in the College of Veterinary Medicine.
Administering anesthetic agents. Fundamentals of surgery including sterile technique, tissue handling, suture patterns, wound healing, and postoperative care.
VM—Veterinary Medicine

Musculoskeletal Diseases
Fall, Spring. 4(4-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Musculoskeletal diseases of domestic animals. Pathogenesis, diagnosis, and treatment.

Respiratory Diseases
Fall. 2(2-0) RB: Completion of year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Respiratory diseases of domestic animals. Pathogenesis, diagnosis, and treatment.

Principles of Diagnostic Imaging
Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine. Basic principles of diagnostic imaging including radiographic physics, safety, interpretive principles and normal veterinary anatomy.

Applied Diagnostic Imaging
Fall. 1(0-2) RB: Completion of Year 1 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Radiographic interpretation. Recognition of abnormalities. Development of verbal skills in image interpretation. Alternate imaging modalities.

Theriogenology and Urinary Diseases
Fall. 5(4-2) RB: Completion of Year 2 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Urogenital diseases of domestic animals. Pathogenesis, diagnosis, and treatment.

Hematological, Oncological and Dermatological Diseases
Fall. 3(3-0) RB: Completion of Year 2 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Hematological, oncological and dermatological diseases of domestic animals. Pathogenesis, clinical presentation, diagnosis, and treatment.

Neurological and Ophthalmological Diseases
Fall. 3(3-0) RB: Completion of Year 2 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Neurological and ophthalmological diseases of domestic animals. Pathogenesis, diagnosis, and treatment.

Operative Surgery
Fall. 2(1-3) RB: Completion of Year 2 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Soft tissue and orthopedic surgery of domestic animals. Preoperative evaluation, surgery, and postoperative care.

Digestive Diseases of Domestic Animals
Fall. 3 credits. RB: Completion of Year 2 of the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Digestive diseases of domestic animals. Diagnosis, therapy, prophylaxis, and management.

Metabolic and Endocrinological Diseases
Fall. 2(2-0) RB: Completion of Year 1 in the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Pathogenesis, diagnosis, and treatment of metabolic and endocrinologic diseases of domestic animals.

Private Practice Ownership
Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine. Demographic studies, business entities, financing, leadership, business and marketing plans, and entrepreneurial ownership considerations when starting a practice or buying an existing practice.

Veterinary Externship
Fall, Spring, Summer. 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Clinical or research experience in an off-campus setting.

Special Problems in Veterinary Medicine
Fall, Spring, 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Open only to graduate-professional students in the College of Veterinary Medicine. Individual study directed by a faculty member on an experimental, theoretical, or applied problem. May involve off-campus experience in a preceptorial mode.

Career Development and Business Skills
Spring. 3 credits. RB: Open only to graduate-professional students who have completed semester 5 of the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. Development of leadership, business and interpersonal skills, career planning, and goal setting.

Food Safety Introduction and Professional Management
Fall, Spring, Summer. 2 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. RB: One year of college level science including one semester of microbiology. R: Open only to students in the Master of Science degree in Food Safety or approval of college. Various food safety topics. Organizational, managerial, leadership and communication skills.

Evolution and Ecology of Foodborne Pathogens
Fall, Spring, Summer. 3 credits. R: Open to master's students in the Food Safety major or approval of college. Evolution of foodborne pathogens. Ecology of microbial organisms found in the food chain from introduction through human consumption.

Food Safety Toxicology
Fall, Spring. 3 credits. R: Open to master's students in the Food Safety major or approval of college. Nature and properties of toxic substances through the food chain. Nature and magnitude of hazards to human health.

Special Studies in Food Safety
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to master's student in the Food Safety major or approval of college. Faculty supervised independent study on an experimental, theoretical or applied project. May involve on-campus or off-campus experience.

Packaging for Food Safety
Summer. 3 credits. Interdepartmental with Packaging. Administered by Veterinary Medicine. RB: Enrollment in graduate program in related field. R: Open to master's students in the Food Safety major and open to graduate students in the Packaging major or approval of college. Current issues in packaging and food safety.

Applied Project in Food Safety
Fall, Spring. 3 credits. R: Open to master's students in the Food Safety major or approval of college. Faculty directed student project.

Livestock Pre-Harvest Food Safety
Spring. 3 credits. R: Open to master's students in the Food Safety major 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.

Current Topics in Comparative Medicine and Integrative Biology
Fall, 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. 3 credits. Interdepartmental with Criminal Justice. Administered by Veterinary Medicine. R: Open to graduate students in the College of Veterinary Medicine or in the Food Safety major or in the Veterinary Medicine major or in the Criminal Justice major or approval of college.
Food systems and criminal justice approaches to prepare for and solve issues relating to food safety and defense.

824 Global Food Safety
Fall. 3(3-0) RB: Professional or graduate status with knowledge of food safety. R: Open to graduate students in the Food Safety major or approval of college.
Understanding food safety challenges in different geographic regions. Development of interventions for food safety in a global context.

825 Quantifying Food Risk
Fall. 3(3-0) RB: Professional or graduate status with knowledge of food safety. R: Open to master's students or graduate-professional students in the College of Veterinary Medicine or in the School of Criminal Justice or in the School of Packaging or in the Food Safety major or approval of college.
Food risks based on quality, safety, fraud and intentional threats.

826 Creating a Food Safety Culture
Summer of odd years. 3(3-0) RB: Professional or graduate status with knowledge of food safety. R: Open to graduate students in the College of Veterinary Medicine or in the Department of Large Animal Clinical Sciences or in the Food Safety Major or approval of college.
Explores proven, evidence-based ways to change or strengthen the food safety culture of an organization and influence employee behavior.

827 Food Safety Modernization Act and Hazard Analysis and Critical Control Point Systems
Spring. 3(3-0) RB: Professional or graduate status with knowledge of food safety. R: Open to graduate students in the Food Safety Major or approval of college.
Food safety requirements for food establishments subject to the Food Safety Modernization Act. Food safety management systems, with a focus on the Hazard Analysis and Critical Control Points (HACCP) Approach.

830 Food Safety Research Methods
Fall, Summer. 3(3-0) R: Open to graduate students in the College of Veterinary Medicine 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
Fall, Summer. 3(3-0) R: Open to master's students in the Food Safety major or approval of college.
Applied foodborne disease investigation through the use of case studies.

834 Current Issues in Food Safety
Fall, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the College of Veterinary Medicine or in the Department of Large Animal Clinical Sciences or in the Food Safety Major or approval of college.
Current issues in food safety including: allergen control in the manufacturing setting, microbial control in the manufacturing setting, good manufacturing practices, ingredient safety, preventative control, produce food safety. Other topics as needed.

835 Food Safety for Produce
Spring. 3(3-0) R: Open to graduate students in the Food Safety Major or approval of department.
Overview of food safety requirements for the produce sector with a focus on Good Agriculture Practices (GAPS).

836 Food Safety Issues by Commodity
Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the College of Veterinary Medicine or in the Food Safety Major or approval of college.
Food safety issues specific to different commodity groups or segments of food industry including meat safety, dairy safety, beverage safety, pet food safety, ingredient safety, and food waste recovery.

840 Anti-Counterfeit Strategy and Product Protection
Summer. 3(3-0) Interdepartmental with Criminal Justice and Packaging. Administered by Veterinary Medicine. R: Open to graduate students in the School of Criminal Justice or in the School of Packaging or in the Food Safety Major or approval of department.
Theory and applied techniques for anti-counterfeit strategies and product protection for food and consumer products.

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.