820

PATHOBIOLOGY AND DIAGNOSTIC INVESTIGATION

630 **Diagnostic Pathology Clerkship** PDI Fall, Spring. 3 credits. RB: Completion of

Advanced Human Hematology Spring of odd years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. RB: MT 424

Pathogenesis, mechanisms, and morphological pictures. Laboratory tests and interpretation of re-

Department of Pathobiology and Diagnostic Investigation

College of Veterinary Medicine

Comparative Veterinary Gross Anatomy Fall. 6(2-10) R: Open to graduate-professional students in the College of Vet-515 erinary Medicine. SA: ANTV 515

Canine anatomy. Comparisons with ruminant, porcine, and equine anatomy.

Fall. 4(3-2) R: Open to graduateprofessional students in the College of Veterinary Medicine. SA: ANTV 516

Principles of developmental, cellular, and molecular biology as related to veterinary medicine.

516 **Veterinary Histology and Cell Biology**

Veterinary Neuroanatomy

Spring. 1(1-0) R: Open to graduate-professional students in the College of Veterinary Medicine. SA: ANTV 517

Introduction to the anatomy of the nervous system using the canine species as a model.

551

General Pathology
Spring. 3(2-2) 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. SA: PTH 551

Host responses to injury, including cell degeneration, necrosis, disturbances of growth and development, neoplasia, circulatory disturbances, and in-

Clinical and Systemic Pathology 553

Fall. 5(4-2) RB: Successful completion of year 1 in the graduate professional program in the College of Veterinary Medicine. R: Open to graduate-professional students. SA: PTH 553

Hematology. Pathology of hematopoietic, lymphatic, digestive, urinary, respiratory, integumentary, car-diovascular, nervous, reproductive, musculoskeletal, endocrine, ocular, and otic systems.

Veterinary Gross Anatomy Dissection

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 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. SA: ANTV 610

Dissection and prosection of selected regions of domestic animals.

Research Problems in Veterinary Anatomy

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 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. SA: ANTV 611

Veterinary gross anatomy, cell biology, histology, or neurobiology

Necropsy Clerkship

ings, and diagnostic laboratory results.

SA: PTH 630

Fall, Spring. 3 credits. P:M: PDI 630 RB: Completion of semester 5 of the graduate professional program in the College of Veterinary Medicine. R: Open to graduateprofessional students in the College of Veterinary Medicine. SA: PTH 631

semester 5 of the graduate-professional

program in the College of Veterinary Medi-

cine. R: Open to graduate-professional stu-

dents in the College of Veterinary Medicine.

Necropsy and clinical pathology techniques and interpretation of clinical findings, post mortem find-

Supervised necropsy. Interpretation and presentation of findings.

632 **Problems in Veterinary Pathology**

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 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. SA: PTH 632

Supervised projects involving gross pathology, histopathology, clinical pathology, or molecular pathology.

Endocrinology ClerkshipSpring. 3 credits. 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. SA:

Principles of endocrinology and diagnosis of endocrinology disorders. Case review and interpretation.

Special Problems in Histopathology and Cytology Clerkship

Spring. 3 credits. P:M: PDI 630 RB: Completion of Semester 5 of the professional program in the College of Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine. SA: PTH 635

Study of the histopathology and clinical cytology of various diseases of veterinary importance.

Aquatic Animal Medicine Clerkship
Fall, Spring. 3 credits. 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. SA: PTH 636

Clinical, laboratory, and ecological principles of disease of aquatic organisms with special emphasis on impacts and management. Critical analysis and review of selected case studies and disease control

Molecular and Developmental Neurobiology

Fall. 3(3-0) Interdepartmental with Neuroscience and Pharmacology and Toxicology and Psychology and Zoology. Administered by Neuroscience. RB: Bachelor's degree in a Biological Science or Psychology. R: Open to graduate students in Neuroscience major.

Nervous system specific gene transcription and translation. Maturation, degeneration, plasticity, and repair in the nervous system.

822 **Aquatic Animal Medicine**

Fall. 3(2-2) Interdepartmental with Fisheries and Wildlife and Veterinary Medicine. Administered by Fisheries and Wildlife. RB: (FW 423) or prior course work in microbiology, parasitology, or pathology. Also knowledge in icthyology, aquatic biology, vertebrate and invertebrate ecology,

Health management techniques and pathobiological processes relating to the etiology, diagnosis, and control of diseases affecting aquatic animal populations and communities.

830 Concepts in Molecular Biology

Fall, Spring. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. RB: One course in biochemistry or concurrently.

Techniques and theories of molecular biology, nucleic acid synthesis and isolation, enzymatic digestion and modification, electrophoresis, hybridization, amplification, library construction, and cloning.

860 Clinical Laboratory Diagnosis of Infectious Diseases

Fall of odd years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. RB: MMG 451 and MMG 464

Laboratory techniques for diagnosing infectious diseases in humans. Emphasis on differential diagnosis and correlation of microbiological results with serology, hematology, and clinical chemistry.

Investigating the LungFall of even years. 2(2-0) Interdepartmental with Physiology and Large Animal Clinical Sciences Administered by Large Animal Clinical Sciences. R: Open only to graduate students

Integrative biology of the lung; structure and function; molecular, cellular, and organ responses to injury.