PDI—Pathobiology and Diagnostic Investigation

Department of Pathobiology and Diagnostic Investigation
College of Veterinary Medicine

519 Comparative Veterinary Gross Anatomy II
Spring, 4(2-6) R: Open to graduate-professional students in the College of Veterinary Medicine.

Introduction to comparative anatomy of all domestic animals through lectures and dissection. Clinically relevant anatomy.

521 Veterinary Organ Microanatomy
Spring, 2(1-3) R: Open to graduate-professional students in the College of Veterinary Medicine.

Microanatomy of organ systems and relationship of structure to function.

551 General Pathology
Fall, 2(1-2) 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 inflammation.

553 Systemic Pathology
Spring, 4(3-2) 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. SA: PTH 553

Anatomic pathology of digestive, urinary, respiratory, integumentary, cardiovascular, nervous, reproductive, musculoskeletal, endocrine, and lymphatic systems.

554 Veterinary Clinical Pathology
Spring, 3(2-2) 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. SA: PTH 554

Collection and assessment of body fluids and tissue. Interpretation of test results. Pathophysiologic basis for test abnormalities. Basic technical laboratory competencies.

560 Introduction to Veterinary Cytology
Fall, 1(0-2) 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.

Principles of sample collection, slide preparation, fluid analysis and interpretation using clinical case material.

561 International Veterinary Medicine
Fall, 1(1-0) 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. SA: PTH 561

Veterinary sciences and the needs of international countries.

562 Introduction to Emerging and Foreign Animal Diseases
Spring, 1(1-0) 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.

Emerging and exotic animal diseases, their recognition, diagnosis, and proper reporting.

564 Topographic and Applied Anatomy of Live Horses and Cattle
Fall, 1(0-2) 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. SA: PTH 564

Identification of structures and landmarks of clinical significance in live horses and cattle in relation to the structures imaged using endoscopy, ultrasonography, radiology, MRI, and CT scans.

565 Surgical Anatomy of Cats and Dogs
Fall, 1(0-2) 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. SA: PTH 565

Anatomy of the cat and dog encountered during commonly used surgical approaches.

590 Selective Topics in Pathobiology and Diagnostic Investigation
Fall, Spring, 1(1-0) 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. SA: PTH 590

Important field of study in Pathobiology and Diagnostic Investigation.

610 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: PTH 610

Dissection and prosection of selected regions of domestic animals.

611 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: PTH 611

Veterinary gross anatomy, cell biology, histology, or neurobiology.

630 Diagnostic Pathology 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 630

Necropsy and clinical pathology techniques and interpretation of clinical findings, postmortem findings, and diagnostic laboratory results.

631 Necropsy Clerkship
Summer, 3 credits. P: PDI 630 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 631

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.

633 Special Problems in Veterinary Pathology
Fall, Spring, Summer, 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 633

Supervised off-campus experience or project involving gross pathology, histopathology, ultrastructural pathology, clinical pathology, or molecular pathology. Experience may emphasize diagnostic pathology or research. Settings may include, but are not limited to other colleges of veterinary medicine, private industry, and governmental institutions.

634 Endocrinology Clerkship
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 634

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

635 Special Problems in Histopathology and Cytology Clerkship
Summer, 3 credits. P: 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.
636  Aquatic Animal Medicine Clerkship
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

637  Poultry Medicine Clerkship
Fall. 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.

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

816  Integrative Toxicology: Mechanisms, Pathology and Regulation
Fall of odd years. 3(3-0) Interdepartmental with Animal Science and Biochemistry and Molecular Biology and Pharmacology and Toxicology. Administered by Pharmacology and Toxicology. P: PHM 819

830  Concepts in Molecular Biology
Fall, Spring. 2(2-0) Interdepartmental with Biomedical Laboratory Diagnostics. Administered by Biomedical Laboratory Diagnostics. RB: One course in biochemistry or concurrently. SA: MT 830

851  Advanced General Pathology
Fall of even years. 3(3-0) R: Approval of department. SA: PTH 851

853  Advanced Systemic Pathology
Spring of odd years. 3(0-6) R: Approval of department. SA: PTH 853

854  Advanced Clinical Pathology
Fall of odd years. 3(2-6) RB: Doctor of Veterinary Medicine degree. R: Approval of department. SA: PTH 854

870  Laboratory Animal Pathology
Summer of odd years. 2(1-2) RB: Background in histopathology, veterinary medicine, and systemic pathology R: Approval of department.

890  Problems in Veterinary Pathology
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department. SA: PTH 890

891  Problems in Pathobiology
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department. SA: PTH 891

892  Pathology Seminar
Fall, Spring. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. SA: PTH 892

893  Pathology Case Discussion Seminar
Fall, Spring. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. SA: PTH 893

894  Diagnostic Histopathology of Neoplastic Diseases of Domestic Animals
Spring of even years. 3(2-2) R: Approval of department.

899  Master's Thesis Research
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to master's students in the Department of Pathobiology and Diagnostic Investigation. Approval of department. SA: PTH 899

999  Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open to doctoral students in the Department of Pathobiology and Diagnostic Investigation. Approval of department. SA: PTH 999

Doctoral dissertation research.