VPAT - VETERINARY PATHOLOGY

VPAT 601 Comparative Pathology
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Pathologic processes occurring in diseased cells, tissues and organs of animals and humans; their pathogenesis and morphologic manifestations.
Prerequisites: Courses in gross and microscopic mammalian anatomy and physiology and approval of instructor.

VPAT 610 Cell Mechanisms of Disease
Credits 3. 3 Lecture Hours.
Cellular mechanism, morphologic manifestations and clinical presentation of illustrative disease processes.
Prerequisites: Graduate classification with a major in BIMS, VTPB, or BMEN; approval of instructor.

VPAT 640 Advanced Mechanisms of Disease
Credits 2. 2 Lecture Hours.
Concepts of pathogenesis of disease processes.
Prerequisite: DVM degree or approval of instructor.

VPAT 641 Systemic Pathology I
Credits 4. 4 Lecture Hours.
Disease manifestations in special organs and tissues and interrelations of pathologic processes in individual and functionally related organs.
Prerequisite: DVM degree or equivalent.

VPAT 642 Mechanisms of Metabolic Disease
Credits 2. 2 Lecture Hours.
Characteristics and mechanisms of diseases caused either by deficiency, imbalance, excess of specific nutrients or chemicals, or by regulatory disturbances of metabolism.
Prerequisite: DVM degree or approval of instructor.

VPAT 643 Applied Pathology
Credits 1 to 6. 1 to 6 Other Hours.
Application of information and concepts of anatomic and clinical pathology to the diagnosis of animal disease; gross pathological changes observed in necropsy are correlated with and corrected by histopathologic observations; confirmatory methods of clinical pathology and laboratory medicine used where indicated. May be taken more than once but not to exceed 6 hours of credit toward a graduate degree.
Prerequisite: DVM degree or equivalent.

VPAT 645 Neoplastic Diseases
Credits 1 to 8. 1 to 8 Other Hours.
Theoretical, histopathological and clinical aspects of neoplasia. Diagnosis of neoplastic and related conditions in all species. May be taken more than once but not to exceed 8 hours of credit toward a graduate degree.
Prerequisite: DVM degree or equivalent.

VPAT 641 Systemic Pathology II
Credits 4. 4 Lecture Hours.
Continuation of VPAT 641. Disease manifestations in special organs and tissues and interrelations of pathologic processes in individual and functionally related organs.
Prerequisite: VPAT 641.

VPAT 652 Cell Mechanisms of Disease
Credits 3. 3 Lecture Hours.
Basic cellular mechanisms and general manifestations of disease; illustration of clinical and anatomical/morphological aspects of various diseases.
Prerequisites: Graduate classification; enrollment in BIMS or BMEN curriculum; approval of instructor.

VPAT 653 Diseases of Laboratory Animals
Credits 3. 3 Lecture Hours.
Pathology and pathogenesis of spontaneous infectious, parasitic, metabolic and neoplastic diseases of laboratory animals.
Prerequisite: VTPB 922 or equivalent.

VPAT 654 Fundamentals in Laboratory Animal Medicine
Credits 2. 2 Lecture Hours.
Knowledge of the biology, management, and diseases of laboratory animals; preparation of comparative medicine residents for the board certifying examination of the American College of Laboratory Animal Medicine (ACLAM).
Prerequisites: DVM degree and acceptance into the laboratory animal residency program; or approval of instructor.

VPAT 655 Contemporary Topics in Laboratory Animal Medicine
Credit 1. 1 Lecture Hour.
Analysis of at least one article per week and delivery of a short oral presentation to the class concerning the article's main points as well as commenting on the quality of the paper experimental design; relies heavily from the current literature published through two main laboratory animal medical journals, Comparative Medicine (CompMed) and Journal of the American Association for Laboratory Animal Science (JAALAS).
Prerequisites: DVM and acceptance into the laboratory animal residency program; or approval of instructor.

VPAT 681 Seminar
Credit 1. 1 Lecture Hour.
For graduate and special students in veterinary or comparative pathology; presentation and discussion of special topics and research data concerning pathology and pathogenesis of disease.
Prerequisite: Approval of instructor.

VPAT 685 Directed Studies
Credits 1 to 4. 1 to 4 Other Hours.
Advanced special problems concerned with pathogenesis and pathology of disease.
Prerequisite: Approval of instructor.

VPAT 689 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of veterinary or comparative pathology. May be repeated for credit.
VPAT 690 Theory of Research
Credits 3. 3 Lecture Hours.
Theory and design of research related to current biomedical problems especially those involving study of animal disease; philosophical perspectives underlying historical advances in research pertaining to the study, prevention and treatment of disease. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Graduate classification.
Cross Listing: NRSC 690, VIBS 690 and VTPP 690.

VPAT 691 Research
Credits 1 to 23. 1 to 23 Other Hours.
Research for thesis or dissertation.