VTPB - Veterinary Pathobiology

**VTPB 910 Veterinary Immunology**
**Credits 2. 2 Lecture Hours.**
Introduction to veterinary immunology; mechanisms of resistance of infectious diseases and tumors; tissue injury caused by the immune system, including hypersensitivity reactions and autoimmunity; immunization theory and practices; immunologic methods for diagnosis of disease.

**Prerequisite:** Enrollment in the first year of professional curriculum.

**VTPB 911 Veterinary Microbiology**
**Credits 4. 3 Lecture Hours. 2 Lab Hours.**
Introduction to veterinary microbiology; bacterial, viral, and mycotic agents of veterinary significance; mechanisms of host injury by pathogenic microorganisms; principles of disinfection, antisepsis, and sterilization; classes and mechanisms of mechanisms of action of antibacterial, antifungal, and antiviral drugs; diagnostic procedures and methods of sample collection.

**Prerequisite:** Enrollment in the first year of professional curriculum.

**VTPB 913 Infectious Diseases**
**Credits 2. 2 Lecture Hours.**
Case-based approach to infectious diseases of animals; includes infectious diseases of major body systems; etiologic agents include viruses, bacteria, fungi, protozoa, helminths, and arthropods; differential diagnosis of infectious agents, diagnostic approaches, prevention, and treatment emphasized; management practices to control infectious diseases covered by host species.

**Prerequisite:** Enrollment in second year of the professional curriculum.

**VTPB 920 Parasitology**
**Credits 5. 3 Lecture Hours. 4 Lab Hours.**
Taxonomy, biological and clinical aspects of the commonly occurring helminth, protozoan and arthropod parasites of domestic and laboratory animals. Signs, pathogenesis, diagnosis, treatment, prevention, and control, public health and economic importance of parasitic diseases.

**Prerequisite:** Enrollment in the second year of professional curriculum.

**VTPB 922 Pathology I**
**Credits 6. 5 Lecture Hours. 2 Lab Hours.**
Structural and functional changes in cells, tissues and organ systems of animals; pathogenesis, mechanisms and morphologic features of diseases and their relationship to clinical signs; laboratory consists of studies of gross and microscopic pathology.

**Prerequisite:** Enrollment in the second year of professional curriculum.

**VTPB 923 Pathology II**
**Credits 6. 5 Lecture Hours. 2 Lab Hours.**
Pathogenesis, mechanisms, laboratory analysis and structural features of animal diseases; structural and functional changes in cells, tissues, body fluids and organ systems that cause or are caused by disease. Laboratory consists of studies in gross and microscopic pathology, cytology and laboratory analysis of body fluids and tissues.

**Prerequisite:** Enrollment in the second year of professional curriculum.

**VTPB 940 Diagnostics**
**Credits 2. 35 Lab Hours.**
Student group participation on a rotating schedule in applied clinical activities in the area of diagnostic medicine including clinical pathology, necropsy, microbiology, parasitology, and serology.

**Prerequisite:** Enrollment in the fourth year professional curriculum.

**VTPB 941 Clinical Microbiology and Parasitology I**
**Credits 2. 35 Lab Hours.**
Clinical rotation in microbiology and parasitology with emphasis on performance and interpretation of diagnostic procedures.

**Prerequisite:** Enrollment in the fourth year of professional curriculum.

**VTPB 948 Didactic Elective**
**Credits 1 to 12. 1 to 12 Lecture Hours.**
Elective course in veterinary microbiology, pathology, genetics, immunology or parasitology for professional students who wish to supplement required curriculum. May be repeated for credit.

**Prerequisite:** Enrollment in the third year of professional curriculum.

**VTPB 985 Directed Studies**
**Credits 1 to 4. 1 to 4 Other Hours.**
Problems in various subdisciplines.

**Prerequisite:** Approval of instructor.

**VTPB 989 Special Topics in...**
**Credits 1 to 4. 1 to 4 Lecture Hours.**
Selected topics in an identified area of microbiology, pathology, genetics, immunology or parasitology. May be repeated for credit.

**Prerequisite:** Approval of department head.