DEPARTMENT OF VETERINARY PATHOBIOLOGY

http://vetmed.tamu.edu/vtpb

Faculty

Adams, Leslie G, Senior Professor
Veterinary Pathobiology
PHD, Texas A&M University, 1968
DVM, Texas A&M University, 1964

Arenas, Angela M, Assistant Professor
Veterinary Pathobiology
PHD, Texas A&M University, 2007
DVM, La Salle University, Colombia, 2002

Brightsmith, Donald J, Associate Professor
Veterinary Pathobiology
PHD, Duke University, 1999

Clubb, Fred J, Clinical Professor
Veterinary Pathobiology
PHD, The University of Alabama at Birmingham, 1983
DVM, Auburn University, 1971

Cook, Walter E, Clinical Associate Professor
Veterinary Pathobiology
PHD, University of Wyoming, 1999
DVM, University of California at Davis, 1994

Criscitiello, Michael F, Associate Professor
Veterinary Pathobiology
PHD, University of Miami, 2003

Derr, James N, Professor
Veterinary Pathobiology
PHD, Texas A&M University, 1990

Dindot, Scott V, Associate Professor
Veterinary Pathobiology
PHD, Texas A&M University, 2003

Edwards, John F, Professor
Veterinary Pathobiology
PHD, Cornell University, 1983
DVM, The Ohio State University, 1974

Esteve-Gasent, Maria D, Assistant Professor
Veterinary Pathobiology
PHD, Universidad de Valencia, Spain, 2003

Jeter, Elizabeth A, Lecturer
Veterinary Pathobiology
DVM, Texas A&M University, 1982

Johnson, Mark C, Clinical Professor
Veterinary Pathobiology
DVM, Texas A&M University, 1988

Kier, Ann B, Senior Professor
Veterinary Pathobiology
PHD, University of Missouri - Columbia, 1979
DVM, Texas A&M University, 1974

Krecek, Rosina C, Visiting Professor
Veterinary Pathobiology
PHD, University of Pretoria, 1985

Lawhon, Sara D, Associate Professor
Veterinary Pathobiology
PHD, North Carolina State University, 2003
DVM, Texas A&M University, 1997

Levine, Gwendolyn J, Clinical Associate Professor
Veterinary Pathobiology
DVM, Texas A&M University, 2006

Locke, Unity B, Assistant Professor
Veterinary Pathobiology
PHD, Iowa State University, 2011
BA VetMB, University of Cambridge, 2008

Logan, Linda L, Professor
Veterinary Pathobiology
PHD, University of California, Davis, 1987
DVM, Texas A&M University, 1976

Lupiani, Blanca M, Professor
Veterinary Pathobiology
PHD, University of Maryland, 1994

Mulenga, Albert, Professor
Veterinary Pathobiology
PHD, Hokkaido University, 1999
MVM, University of Liverpool, 1993
BVM, University of Zambia, 1990

Musser, Jeffrey M, Clinical Professor
Veterinary Pathobiology
PHD, North Carolina State University, 2000
DVM, VA-MD Regional College of Veterinary Medicine, 1989

Nabity, Mary B, Assistant Professor
Veterinary Pathobiology
PHD, Texas A&M University, 2010
DVM, Cornell University, 2002

Omar, Mohamed T, Clinical Assistant Professor
Veterinary Pathobiology
PHD, Texas A&M University, 1995

Payne, Susan L, Associate Professor
Veterinary Pathobiology
PHD, Louisiana State University, 1983

Pool, Roy R, Clinical Professor
Veterinary Pathobiology
PHD, University of California, Davis, 1967
DVM, Oklahoma State University, 1964

Porter, Brian F, Clinical Associate Professor
Veterinary Pathobiology
DVM, Texas A&M University, 1992
Courses

VTPB 212 Genetics in the News
Credits 3.3 Lecture Hours.
Use of contemporary news articles from the popular press to delve into the science of genetics and genomics and their methodologies to gain a deeper understanding of how data is analyzed and interpreted leading to news headlines.
Prerequisites: Sophomore classification or approval of instructor; high school or college course in biology recommended.

VTPB 221 Great Diseases of the World
Credits 3.3 Lecture Hours.
Great infectious and parasitic diseases; introduction to the major diseases affecting humans and other mammals including plague, tuberculosis, AIDS and malaria.
Prerequisite: Freshman or sophomore classification.

VTPB 285 Directed Studies
Credits 0 to 4.0 to 4 Other Hours.
Directed individual study of selected problems in microbiology, parasitology, immunology, genetics or pathology as approved by instructor.
Prerequisites: Approval of department head; freshman or sophomore classification.

VTPB 289 Special Topics in...
Credits 1 to 4.1 to 4 Lecture Hours.
Selected topics in an identified area of veterinary pathobiology. May be repeated for credit.
Prerequisite: Freshman classification.

VTPB 301/WFSC 327 Wildlife Diseases
Credits 3.3 Lecture Hours.
Basic mechanisms of diseases as they occur in wildlife populations; interplay of habitat requirements, individual physiological requirements and disease producing mechanisms of varied wildlife species.
Prerequisite: Junior classification or approval of department head.
Cross Listing: WFSC 327/VTPB 301.
VTPB 303 Medical Communication in the International Community
Credits 2. 2 Lecture Hours.
To develop an awareness that there is a culture associated with the practice of veterinary and human medicine in other countries.
Prerequisite: Junior or senior classification.

VTPB 334 Poultry Diseases
Credits 4. 4 Lecture Hours. 2 Lab Hours.
Poultry sanitation and diseases. Prevention and control of environmental, nutritional, parasitic and contagious diseases.
Prerequisites: BIOL 113 and BIOL 123; junior or senior classification.

VTPB 404 Amazon Field School
Credits 4. 4 Lecture Hours.
Investigation of social and ecological complexities of biodiversity conservation in tropical ecosystems; biological and social science approaches to evaluate causes, consequences and solutions to biodiversity loss through ecology, culture and governance.
Prerequisites: Junior or senior classification with a minimum GPA of 2.0 and approval of instructor.
Cross Listing: RPTS 454 and WFSC 454.

VTPB 405 Biomedical Microbiology
Credits 5. 3 Lecture Hours. 5 Lab Hours.
Fundamentals of bacteriology, mycology, virology, infectious diseases, immunology and identification of pathogenic microorganisms.
Prerequisite: Junior classification in a biological science.

VTPB 407 Advanced Veterinary Microbiology Laboratory
Credits 1 to 3. 1 to 4 Lab Hours.
Modular course (one credit per module) that covers immunological and molecular techniques used with bacteria, parasites and viruses in animals for diagnostic and identification purposes.
Prerequisites: VTPB 405, VTPB 409 and VTPB 438 or concurrent enrollment; junior or senior classification.

VTPB 408 Clinical Microbiology
Credits 4. 2 Lecture Hours. 5 Lab Hours.
Practical application of clinical bacteriology and mycology; laboratory identification of pathogenic organisms.
Prerequisites: VTPB 405; junior or senior classification.

VTPB 409 Introduction to Immunology
Credits 3. 3 Lecture Hours.
Diverse concepts relative to immunologic mechanisms inherent to domestic and laboratory animals.
Prerequisite: Advanced classification.

VTPB 410 Cell Mechanisms of Disease
Credits 3. 3 Lecture Hours.
Mechanisms, morphologic manifestations and clinical signs of disease processes at the cellular level.
Prerequisites: VTPP 423 or registration therein; junior or senior classification.

VTPB 412 Techniques of Clinical Pathology
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Theory and pathophysiologic principles underlying laboratory evaluation of disease states; principles of analytical methods with applications in the contemporary biomedical laboratory considered, using selected hematology and clinical chemistry techniques as examples.
Prerequisites: CHEM 228 and CHEM 238; VTPP 423; senior classification in biomedical science or approval of instructor.

VTPB 415 Immunogenetics and Comparative Immunology
Credits 3. 3 Lecture Hours.
Genetic mechanisms used to diversify immune receptors; immunoglobulins, T cell receptors, major histocompatibility complex, natural killer cell receptors, toll-like receptors and many others; selected comparative and veterinary examples of different immune recognition systems; evolution of the immune system.
Prerequisites: Junior or senior classification, GENE 320/BIMS 320 and VTPB 409 or approval of instructor.

VTPB 421 Bacterial Diseases of Humans and Animals
Credits 3. 3 Lecture Hours.
Pathogenesis of selected bacterial pathogens of humans and animals; bacterial virulence factors, host immune responses; current concepts of extracellular, facultative intracellular and obligate intracellular bacterial diseases.
Prerequisites: VTPB 405 and VTPB 409; junior or senior classification.

VTPB 438 Biomedical Virology
Credits 3. 3 Lecture Hours.
Fundamental study of nature and characteristics of human and animal viruses; classification, morphology, chemical structure, ability to cause disease and nature of resulting disease.
Prerequisite: 3 hours of microbiology or approval of instructor.

VTPB 454/MARB 454 Ornamental Fish Health Management
Credits 3. 3 Lecture Hours.
Maintenance and health care of ornamental fish in closed recirculating systems; aquariology, anatomy and physiology, nutrition, immunology, infectious and noninfectious diseases, checklists, quarantine procedures and health maintenance of ornamental fish.
Prerequisites: VTPB 405 or BIOL 351; BICH 410 or MARS 360; junior or senior classification.
Cross Listing: MARB 454.

VTPB 485 Directed Studies
Credits 0 to 4. 0 to 4 Other Hours.
Directed individual study of selected problems in microbiology, parasitology, immunology, genetics or pathology as approved by instructor.
Prerequisites: Approval of department head; junior or senior classification.

VTPB 487/BIOL 487 Biomedical Parasitology
Credits 4. 3 Lecture Hours. 2 Lab Hours.
Helmint and protozoan parasites of medical and veterinary importance; life cycles, morphology, taxonomic classification, economic and public health aspects and current topics in parasitic diseases.
Prerequisites: BIOL 107 or BIOL 114; junior classification or approval of instructor.
Cross Listing: BIOL 487/VTPB 487.
VTPB 489 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of microbiology, pathology, genetics, immunology, parasitology, or physiological chemistry. May be repeated for credit.
Prerequisites: Junior or senior classification and approval of department head.