DEPARTMENT OF PATHOLOGY

Charles V. Clevenger, M.D., Ph.D.
Professor and chair

pathology.vcu.edu (http://www.pathology.vcu.edu/)

The Department of Pathology is a diverse clinical, research and teaching department within the School of Medicine. The department offers a full range of pathology services to physicians, researchers and patients at the VCU Health System, a 780-bed tertiary-care urban teaching hospital dedicated to serving the patients and physicians of central Virginia. The 47 faculty members supervise 14 hospital laboratories including histopathology, neuropathology, cytopathology, autopsy pathology, molecular diagnostics, cytogenetics, hematology, coagulation, microbiology, immunology, clinical chemistry, toxicology and transfusion medicine staffed by more than 350 hospital employees. The department faculty conduct a robust array of research programs in numerous areas and participate in student training through a variety of mechanisms.

PATH 521. Laboratory Techniques in Diagnostic Pathology. 3 Hours.
Semester course; 3 lecture hours. 3 credits. This team taught course includes principles of automated and non-automated testing, diagnostic testing, and an active laboratory demonstration of each method.

PATH 540. Pathology for Allied Health Sciences. 2 Hours.
Semester course; 1.5 lecture and 1 laboratory hours. 2 credits. Explores morbid tissue changes involved in selected disease states, with emphasis on musculoskeletal and nervous systems. Provides the foundation to understanding clinical problems that physical therapists and other paramedical personnel will encounter and treat in their patients.

PATH 590. Experimental Pathology Seminar. 1 Hour.
Semester course; 1 lecture hour. 1 credit.

PATH 601. General Pathology (Dentistry). 6 Hours.
Semester course; 6 lecture hours. 6 credits. Instruction in the basic principles regarding alteration of structure and function in disease and in the pathogenesis and effect of disease in the various organ systems.

PATH 609. Clinical Genomics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Enrollment is restricted to graduate students and residents with undergraduate degrees in an area related to genetics, biology or psychology. Provides an overview of modern genetic and genomic diagnostic testing. Explores topics including genomic variation, epigenetics, modern methodologies, applications of testing, data interpretation including variant classification, and the benefits and limitations of testing. Crosslisted as: HGEN 609.

PATH 620. Special Topics in Modern Instrumental Methods. 2 Hours.
Semester course; 1 lecture and 2 laboratory hours. 2 credits. A study of some of the modern research methods of molecular biology. The student gains experience with the technique concomitant with discussions with faculty. The student writes a comprehensive review of the technique studies.

PATH 670. Experimental Approaches to Tumor Biology. 3 Hours.
Semester course; 3 lecture/discussion hours. 3 credits. Introduces central problems in tumor biology and the methods available for their study. Develops through lectures and presentations skills in critical review and interpretation of research reports.

PATH 690. Clinical Chemistry Seminar. 1 Hour.
Semester course; 1 lecture hour. 1 credit. Graduate students, residents, and staff present topics of current interest in clinical chemistry.

PATH 691. Special Topics in Modern Instrumental Methods. 2 Hours.
Semester course; 1 lecture and 2 laboratory hours. 2 credits. By special arrangement with instructor. A study of some of the modern research methods of molecular biology. The student gains experience with the technique concomitant with discussions with faculty. The student writes a comprehensive review of the technique studied.

PATH 697. Research in Pathology. 1-15 Hours.
Semester course; 1-15 credits. Research leading to Ph.D. degree and elective research projects for other students.