Descriptions — Pathology

Courses

130. Concepts in Molecular Biology
Spring of even-numbered years. 3(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology.

P: One course in Biochemistry or concurrently. Techniques and theories of molecular biology, nucleic acid synthesis and isolation, enzymatic digestion and modification, electrophoresis, hybridization, amplification, library construction, and cloning.

840. Advanced Hemostasis
Fall of odd-numbered years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. P: BCH 465, MT 422.

Physiology, pathophysiology, and laboratory evaluation of hemostatic disorders.

851. Advanced General Pathology
Fall of even-numbered years. 3(3-0)

P: PTH 652 concurrently. R: Approval of department.

Fundamental concepts of cell injury, inflammation, and oncogenesis. Mechanisms of disease.

852. Advanced General Pathology Laboratory
Fall of even-numbered years. 1(0-2)

P: PTH 851 concurrently.

Histopathologic and ultrastructural study of general morphologic patterns of inflammation cell injury and neoplasm.

853. Advanced Systemic Pathology
Spring of even-numbered years. 4(3-2)

R: Approval of department.

Pathologic aspects of the nervous, endocrine, cardiovascular, respiratory, urinary, genital, musculoskeletal, integumentary and special sense systems.

854. Advanced Clinical Pathology
Spring of even-numbered years. 3(3-0)

P: PTH 540, PTH 562, PTH 699. PTH 851. R: Approval of department.

Hematology including anemia, leukocyte responses and hemostasis. Clinical chemistry including tests to evaluate organs.

855. Proseminar
Fall of odd-numbered years. 2(2-0)

R: Approval of department.

Preparation, editing, and review of research manuscripts and grants. Critique of oral presentations. Illustrations of research data and thesis preparation.

856. Pathotoxicology
Summer of even-numbered years. 3(3-0)

R: Approval of department.

Pathologic changes in tissues of animals used in toxicologic studies. Clinical pathologic assessments. Gross, histologic, and ultrastructural changes in organ systems.

857. Correlative Diagnostic Pathology
Fall, Spring. Summer. 3(0-6)

R: Approval of department.

Diagnosis of animal diseases by necropsy, biopsy, or clinical pathology. Correlation of diagnostic test results with history, laboratory data and morphologic findings. Compiled and formal presentation of findings.

858. Pathology of Avian Diseases
Spring of even-numbered years. 3(2-0)

C: Pathology students must take PTH 659. R: Approval of department.

An overview of disease and pathology affecting domestic poultry, pet birds, and wild birds.

859. Avian Histopathology Laboratory
Spring of even-numbered years. 1(0-2)

C: Pathology students must take PTH 588. R: Approval of department.

Recognition and description of microscopic lesions of avian diseases.

860. Clinical Laboratory Diagnosis of Infectious Diseases
Spring of even-numbered years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology.

P: MIC 451, MIC 461, Laboratory techniques for diagnosing infectious diseases in humans. Emphasis on differential diagnosis and correlation of microbiological results with serology, hematology, and clinical chemistry.

861. 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.

Faculty supervised work on an experimental, theoretical or applied problem in veterinary pathology.

862. Problems in 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.

Faculty supervised work on an experimental, theoretical or applied problem in pathology.

863. Pathology Seminar
Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course.

R: Approval of department.

Presentation and discussion of current topics in pathology by departmental graduate students, faculty or outside speakers.

864. 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: Approval of department.

865. Investigating the Lung
Fall of even-numbered years. 3(0-0) Interdepartmental with Large Animal Clinical Sciences and Physiology. Administered by Large Animal Clinical Sciences.

R: Open only to M.S. and Ph.D. students in Large Animal Clinical Sciences, Small Animal Clinical Sciences, Physiology, and Pathology. Approval of department.


866. 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: Admission to doctoral program in Pathology.

PEDIATRICS

Department of Pediatrics
College of Osteopathic Medicine

590. Special Problems in Pediatrics
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 48 credits in all enrollments for this course.

R: Open only to graduate-professional students in the College of Osteopathic Medicine. Approval of department. Experimental, theoretical, or applied problems under faculty direction.

600. Pediatrics Clerkship
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Open only to graduate-professional students in the colleges of Osteopathic Medicine and Human Medicine upon completion of Units I and II.

Practical clinical exposure in the area of pediatrics.

610. Ambulatory Care Clerkship
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 15 credits in all enrollments for this course. Interdepartmental with Family Practice and Medicine. Administered by Family Practice.

P: FMF 692. R: Open only to graduate-professional students in College of Human Medicine.

Continuous and comprehensive patient care under supervision of appropriate physicians.

620. Directed Studies
Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 30 credits in all enrollments for this course. Open only to graduate-professional students in the College of Osteopathic Medicine. Approval of department.

Study in general or specialty pediatrics.

PEDIATRICS AND HUMAN DEVELOPMENT

Department of Pediatrics and Development
College of Human Medicine

593. Genetics for Medical Practice
Summer. 1(1-0) Interdepartmental with Biochemistry.

R: Graduate professional students in colleges of Human and Osteopathic Medicine.

Basic principles of genetics for medical students.

594. Genetics Clinic
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

P: PHD 520. R: Graduate-professional students in colleges of Human and Osteopathic Medicine.

Role of genetics in health care delivery under the direction of a faculty member.

611. Special Problems in Human Development
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

R: Graduate-professional students in colleges of Human and Osteopathic Medicine.

Work under the direction of a faculty member on an experimental, theoretical, or applied problem.