

**Descriptions — Pathology
of
Courses**

830. Concepts in Molecular Biology
Spring of odd-numbered years. 2(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 462, MT 422. Physiology, pathophysiology, and laboratory evaluation of hemostatic disorders.

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

P: PTH 852 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 odd-numbered years. 4(3-2)

R: Approval of department. Pathological 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 552, PTH 609, PTH 651. R: Approval of department. Hematology including anemias, 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. Philosophy and methods of research.

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. 2(2-0)

C: Pathology students must take PTH 859. 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 858. 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 464.

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

890. 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.

891. 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.

892. 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.

899. 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.

901. Investigating the Lung

Fall of even-numbered years. 3(3-0) 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.

Classic and current concepts of respiratory structure and function in health and disease. Mechanisms of lung injury.

999. 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

PED

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 6 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.

619. Ambulatory Care Clerkship

Fall, Spring, Summer. 1 to 3 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: FMP 602. 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 30 credits. A student may earn a maximum of 30 credits in all enrollments for this course.

P: PED 600. R: 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

PHD

Department of Pediatrics and Human Development College of Human Medicine

523. 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.

524. 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 523. 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.

591. 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.