851. Advanced General Pathology  
Fall of even-numbered years. 3(0-0)  
P: PTH 852 concurrently. R: Approval of department.  
Fundamental concepts of cell injury, inflammation, and oncogenesis. Mechanisms of disease.  
QA: PTH 806

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 neoplasms.  
QA: PTH 806L

853. Advanced Systemic Pathology  
Spring of even-numbered years. 4(3-2)  
P: Approval of department.  
Pathological aspects of the nervous, endocrine, cardiovascular, respiratory, urinary, genital, musculoskeletal, integumentary and special sense systems.  
QA: PTH 802, PTH 803, PTH 807

854. Advanced Clinical Pathology  
Spring of odd-numbered years. 3(0-0)  
P: PTH 840, PTH 852, PTH 800, PTH 651. R: Approval of department.  
Hematology including anemias, leukocyte responses and hemostasis. Clinical chemistry including tests to evaluate organs.  
QA: PTH 905

855. Proseminar  
Summer of odd-numbered years. 2(2-0)  
P: PTH 840. R: Approval of department.  
Preparation, editing, and review of research manuscripts and grant applications. Critique of oral presentations. Illustrations of research data and thesis presentation. Philosophy and methods of research.  
QA: PTH 905

856. Patho¬toxicology  
Summer of even-numbered years. 3(0-0)  
P: PTH 840. 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.  
QA: PTH 905

857. Correlat¬ive Diagnostic Pathology  
Fall, Spring, Summer. 3(0-6)  
P: PTH 840. 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. Completed and formal presentation of findings.  
QA: PTH 807, PTH 810

891. 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.  
P: Approval of department.  
Faculty supervised work on an experimental, theoretical or applied problem in veterinary pathology.  
QA: PTH 800

892. Pathology Seminar  
Fall, Spring. 1-1(0-0) A student may earn a maximum of 5 credits in all enrollments for this course.  
P: Approval of department.  
Presentation and discussion of current topics in pathology by departmental graduate students, faculty or outside speakers.  
QA: PTH 800

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.  
P: Approval of department.  
QA: PTH 899

999. Doctoral Dissertation Research  
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course.  
P: Approval of department in Pathology.  
R: Admission to doctoral program in Pathology.  
QA: PTH 999

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.  
P: Graduate professional students in Colleges of Human and Osteopathic Medicine.  
R: Graduate-professional students in Colleges of Human and Osteopathic Medicine.  
Basic principles of genetics for medical students.  
QA: PTH 905

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.  
QA: PTH 905

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.  
P: PHD 500 R: Open only to 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.  
QA: PTH 905

600. Pediatric Specialty Clerkship  
Fall, Spring, Summer. 12 credits.  
P: Open only to graduate-professional students in Colleges of Human and Osteopathic Medicine.  
Clinical supervision of graduate and graduate-professional students in Pediatrics.  
QA: PTH 905

602. Ambulatory Pediatrics  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Open only to graduate-professional students in College of Human Medicine.  
Clinical experiences in outpatient and community setting involving ongoing child health care.  
QA: PTH 905

603. Pediatric Infectious Diseases Clerkship  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Open only to graduate-professional students in College of Human Medicine.  
Combines office, clinic, and inpatient experiences in evaluation and managing pediatric patients with infectious diseases.  
QA: PHD 511

604. Neonatology  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Open only to graduate-professional students in College of Human Medicine.  
Clinical experiences: modern neonatal techniques and care patterns for neonates including follow up.  
QA: PHD 510

605. Pediatric Cardiology Clerkship  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Open only to graduate-professional students in College of Human Medicine.  
Clinical experiences: modern neonatal techniques and care patterns for neonates including follow up.  
QA: PHD 510

606. Pediatric Endocrinology and Metabolism  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Grad professional students in College of Human Medicine.  
Clinical experience in evaluating and managing pediatric patients with endocrine and metabolic disorders.  
QA: PTH 905

607. Pediatric Hematology and Oncology  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Open only to graduate-professional students in College of Human Medicine.  
Clinical experience in evaluating and managing pediatric patients with hematologic and oncologic disorders.  
QA: PTH 905

608. Pediatric Pulmonary Disease Clerkship  
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.  
P: PHD 500 R: Open只 to graduate-professional students in College of Human Medicine.  
Inpatient and outpatient clinical experiences in evaluating and managing pediatric patients with pulmonary disorders.  
QA: PTH 905

PEDIATRICS  
PED

Department of Pediatrics  
College of Osteopathic Medicine

580. Health Professionals’ Role in the Treatment of Substance Abuse  
Spring. 1(1-0)  
P: Open only to graduate and graduate-professional students in the colleges of Human Medicine, Nursing, and Osteopathic Medicine or approval of department.  
Practical knowledge base for recognizing and dealing with individuals affected by substance abuse.  
QA: PED 580

589. Special Problems in Pediatrics  
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course.  
P: Open only to graduate-professional students in College of Osteopathic Medicine.  
Experimental, theoretical, or applied problems under faculty direction.  
QA: PED 580

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.  
P: 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.  
QA: PED 600

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