

**853. Advanced Systemic Pathology**  
*Spring of odd 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 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. Essentials of Scientific Communication**  
*Fall of odd 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.

**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 years. 2(2-0) 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 years. 1(0-2) R: Approval of department.*

Recognition and description of microscopic lesions of avian diseases.

**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 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.

**602. Primary Care Ambulatory Clerkship**  
*Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. Interdepartmental with Osteopathic Medicine; Internal Medicine; Osteopathic Surgical Specialties; Psychiatry; and Family and Community Medicine. Administered by Osteopathic Medicine. P: Successful completion of the preclerkship requirements in College of Osteopathic Medicine Units I and II.*

A 24-week ambulatory care continuity experience involving 12 weeks in a multidisciplinary environment (family medicine, pediatrics, and internal medicine), 6 weeks in family medicine and 6 weeks in specialty areas (internal medicine, surgery, and obstetrics and gynecology). Didactic sessions are scheduled concurrently.

**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 Medicine 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.

**600. Pediatric Specialty Clerkship**  
*Fall, Spring, Summer. 6 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to graduate-professional students in College of Human Medicine. Completion of preclinical CHM curriculum.*

Multidisciplinary approach to children and their families in a health care setting. Integrated biological, behavioral, and clinical sciences in assessing and planning children's health care needs.