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.

860. 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.

861. 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.

862. 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, 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.

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.

699. Special Problems in Pediatrics  
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 30 credits in all enrollments for this course. R: Approval of department.

950. 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.

699. 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, 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 AND HUMAN DEVELOPMENT  
PHD  
Department of Pediatrics  
and Human Development  
College of Human Medicine  
523. Genetics for Medical Practice  
Summer. 1(0-1) 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.