520. **Biology of Blood Diseases Laboratory**  
Spring, 1.6-3) Enrollment in a college of medical sciences program in a biologi­
cal science; MED 320 concurrently.  
Laboratory experience correlating basic science and clinical concepts of hematology.  

550. **Veterinary Pathology**  
Spring, 5.3-4) Third-year Veterinary  
Medicine students or approval of department.  
Principles of pathology, including causes of disease, disturbances of cell growth and metabolism, heredity, circulatory changes, inflammation and neoplasia.  

552. **Veterinary Clinical Pathology**  
Winter, 4.3-3) Fifth-year Veterinary  
Medicine students or approval of department.  
Technical aspects, principles and interpretation of selected laboratory procedures in hematology, chemistry, cytology and related areas.  

608. **Pathology Clerkship**  
Fall, Winter, Spring, Summer. 3 to 17 credits. May reenroll for a maximum of 17 credits. Grade P in all courses offered in terms 1 through 8.  
Anatomic and clinical pathology, with emphasis on clinical-pathological correlations. Conducted in the pathology departments of affiliated hospi­tals.  

609. **Laboratory Medicine Clerkship**  
Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses in terms 1 through 8.  
Current laboratory procedures. Correlation of data from patients with clinical disease, in mor­phologic abnormalities and altered pathophysiology.  

621. **Histopathology Clerkship**  
Winter. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.  
Supervised instruction in the examination and interpretation of histologic lesions caused by animal diseases.  

651. **Veterinary Clinical Pathology Clerkship**  
Fall, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.  
Concepts in laboratory interpretation and diagnosis.  

652. **Veterinary Necropsy Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.  
Supervised necropsy and interpretation of findings.  

656. **Problems in Veterinary Necropsy**  
Fall, Winter, Spring, Summer. 4 credits. PTH 532, approval of department.  
Problems related to necropsy and interpretation of findings.  

800. **Problems in Pathology**  
Fall, Winter, Spring, Summer. Variable credit. Approval of department.  
Elusive work for students in veterinary medicine interested in pathology as a specialty, or in the special pathology of diseases of a particular class or species, and for graduate minors and majors interested in pathological techniques or in non-thesis research.  

801. **Pathology Seminar**  
Fall, Winter, Spring, Summer. 1(1-0)  
May reenroll for a maximum of 3 credits for M.S. candidates and 6 credits for Ph.D. candidates. Approval of department.  
Seminar required of all majors in pathology.  

802. **Advanced Histopathology**  
Fall, Spring, Summer. 6 credits. Approval of department.  
A relatively advanced and comprehensive study in the histopathologic aspects of systemic and special pathology; independent study in the field of pathogenesis and microscopic pathology.  

803. **Advanced Histopathology**  
Winter, Spring, Summer. 3(6-0) PTH 502 and approval of department.  
Continuation of PTH 502.  

805. **Pathology Proseminar**  
Fall, Spring. 3(2-0) Approval of department.  
Theory and methods of research; theses and other research reports; literature review; instruction in research data; practical assignments.  

810. **Postmortem Diagnosis**  
Fall, Spring, Summer. 3(8-0) May reenroll for a maximum of 6 credits. Approval of department.  
Required of majors.  
Instruction and practice in diagnosis of animal diseases by means of necropsy and other labora­tory techniques. Emphasis will be placed upon correlation and interpretation of gross and micro­scopic lesions and results of other tests.  

811. **Advanced Clinical Pathology**  
Spring. 3(6-0) Approval of department.  
Application of standard and newer techniques and instrumentation in hematology, biochemistry, parasitology, etc., to the diagnosis of dis­ease.  

812. **Hematology**  
Winter. 5.3-4) PTH 408 or approval of department.  
Pathology of diseases of blood and analysis of diagnostic laboratory procedures.  

820. **Oncology**  
Spring. 3(6-0) Approval of department.  
A study of benign and malignant neoplasms with emphasis on gross and microscopic charac­teristics and diagnosis.  

826. **Laboratory Animal Pathology**  
Winter. 4(4-0) Medical degrees, approval of instructor.  
Mammalian microscopic studies in the diseases of laboratory animals.  

899. **Master’s Thesis Research**  
Fall, Winter, Spring, Summer. Variable credit. Approval of department.  

900. **Histopathologic Diagnosis**  
Fall, Winter, Spring, Summer. 3(6-0) May reenroll for a maximum of 6 credits. PTH 502, Approval of department.  
Trimming, histopathologic examination, des­cription, diagnosis and reporting of specimens from biopsy and necropsy.  

909. **Advanced Correlative Pathology**  
Fall, Winter, Spring, Summer. 3(10-3)  
May reenroll for a maximum of 15 credits. Approval of department.  
Experience in morphologic and clinical pathology and correlation of these with the clinical aspects of disease.  

999. **Doctoral Dissertation Research**  
Fall, Winter, Spring, Summer. Variable credit. Approval of department.  

**PEDIATRICS**  
(PED)  
(Continued effective January 1, 1979.)  

**College of Osteopathic Medicine**  

590. **Special Problems in Pediatrics**  
Fall, Winter, Spring, Summer. 1 to 8 credits. Approval of department.  
Each student will work under direction of a faculty member in an experimental, theoretical or applied problem.  

600. **Pediatrics Clerkship**  
(O M 652) Fall, Winter, Spring, Summer. 6 or 8 credits. Grade P in all courses offered in terms 1 through 6 or approval of department.  
Practical clinical exposure in the area of pedi­atrics. Program developed to achieve proficiency in motor skills and aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management and therapy.  

620. **Directed Studies**  
Fall, Winter, Spring, Summer. 2 to 24 credits. PED 609 or approval of department.  
Study in general or specialty pediatrics.  

**PEDIATRICS AND HUMAN DEVELOPMENT**  

PHD  
(Name changed July 1, 1979. Formerly Department of Human Development.)  

**College of Human Medicine**  

520. **Genetics Clinic**  
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits.  
Students will interview and examine patients with inheritable disorders, perform related lab­oratory diagnostic procedures, and participate in genetic counseling conferences and discussions.  

531. **Medical Genetics**  
Fall, Winter, Spring, Summer. 1 to 12 credits. Approval of department.  
Basic genetic principles and their application to clinical medicine, prenatal genetic diagnosis, exercises in genetic counseling and the impor­tance of relevant laboratory tests.  

532. **Phenomena of Development**  
Fall, Spring. 3(6-0) PHD 501 or approval of depart­ment.  
Normal psychological and physical development of the human including intellectual, so­cial, emotional and endocrinological growth from infancy through adolescence. Clinical examples highlight deviations from the normal course of development.  

590. **Special Problems in Human Development**  
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 15 credits.  
Human Medicine students or approval of department.  
Each student will work under direction of a staff member on an experimental, theoretical or applied problem.  

Pediatrics and Human Development - Descriptions of Courses