

**Descriptions — Pathology
of
Courses**

540. Introduction to Laboratory Medicine
(OST 551.) Winter. 2 credits. ANT 560, BCH 501, PTH 502.

Introduction to laboratory medicine leading to proficiency in patient evaluation and diagnosis through understanding of common pathologies and basic laboratory procedures in blood, urine and feces analysis.

550. Veterinary Pathology
Spring, 5(3-4) Third-term Veterinary Medicine students or approval of department.
Principles of pathology, including causes of disease, disturbances of cell growth and metabolism, necrosis, circulatory changes, inflammation and neoplasia.

552. Veterinary Clinical Pathology
Winter. 4(3-3) Fifth-term 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. 1 to 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, to 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 652, approval of department.
Problems related to necropsy and interpretation of findings.

800. Problems in Pathology
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. Approval of department.
Elective work for students in medicine interested in pathology as a specialty, or in the special pathology of diseases of a particular class or species, and for graduate students interested in pathological techniques or in nonthesis research.

801. Pathology Seminar
Fall, Winter, Spring. 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.
Presentations and discussions by departmental graduate students, faculty or outside speakers on current topics in pathology.

802. Advanced Histopathology
Fall. 4(3-3) Approval of department.
Comprehensive study of the histopathologic aspects of systemic and special pathology; review of current literature and concepts of pathogenesis, microscopic and ultrastructural pathology.

803. Advanced Histopathology
Winter. 4(3-3) Approval of department.
Continuation of PTH 802.

804. Oncology
(820.) Spring. 4(3-3) Approval of department.
Benign and malignant neoplasms with emphasis on gross and microscopic characteristics and diagnosis. Current concepts of oncogenesis and tumor therapy.

805. Pathology Proseminar
Fall. 2(2-0) Approval of department.
Instruction in preparation and presentation of seminars; philosophy and methods of research; theses and other research reports; literature review; illustration of research data; practical assignments.

808. Clinical Pathology Diagnosis
Summer. 3(0-9) Approval of department.
Diagnosis of animal diseases based on hematologic, cytologic and biochemical tests. Emphasis on the correlation of laboratory data with clinical history and physical findings.

810. Postmortem Diagnosis
Fall. 3(0-9) May reenroll for a maximum of 6 credits. Approval of department.
Diagnosis of animal diseases by means of necropsy and other laboratory techniques. Emphasis on correlation and interpretation of gross and microscopic lesions and results of other tests.

812. Advanced Human Hematology
Winter. 5(3-4) M T 407 or approval of department.
Selected topics in hematology including the pathogenesis, mechanisms and morphology of hematologic diseases in humans.

815. Histopathologic Diagnosis
(980.) Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits. PTH 802, PTH 803, PTH 804, PTH 810, approval of department.
Preparation, histopathologic examination, description, diagnosis and reporting of specimens from biopsy and necropsy.

818. Pathotoxicology
Summer of even-numbered years.
4(4-0) One graduate course in pathology or approval of instructor.
Pathologic changes in tissues of animals used in toxicologic studies. Clinical pathologic assessments. Gross, histologic and ultrastructural changes in organ systems.

820. Advanced Human Hematology
Fall of odd-numbered years. 2(2-0) M T 420, M T 421 or approval of department.
Selected topics in hematology including the pathogenesis, mechanisms and morphological picture of hematologic diseases in humans.

821. Advanced Veterinary Hematology
(811.) Spring of odd-numbered years.
4(3-3) Approval of department.
Current concepts in the pathogenesis, mechanisms and morphology of hematologic diseases of animal species.

822. Advanced Clinical Biochemistry
(811.) Spring of even-numbered years.
4(3-3) Approval of department.
Selected topics in clinical biochemistry, enzymology, immunopathology and related subdisciplines that focus on current technology used in the diagnosis of disease.

826. Laboratory Animal Pathology
Winter of even-numbered years. 4(3-3) Approval of department.
Gross, histologic, ultrastructural and clinicopathologic study of diseases of laboratory animals.

840. Advanced Hemostasis
Fall of even-numbered years. 2(2-0) M.S. candidates in Clinical Laboratory Science or approval of department.
Physiology, pathophysiology and laboratory evaluation of hemostatic disorders.

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

990. Advanced Correlative Pathology
Fall, Spring. 5(1-15) Approval of department.
Compilation and formal presentation of the correlative findings of case material in anatomic and/or clinical pathology.

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

PEDIATRICS PED

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 on an experimental, theoretical or applied problem.

600. Pediatrics Clerkship
Fall, Winter, Spring, Summer. 6 or 8 credits. Grade P in all courses offered in terms 1 through 8 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 600 or approval of department.
Study in general or specialty pediatrics.