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
Summer. 3(3-0) R: Approval of department.
Hematology including anemias, leukocyte responses and hemostasis. Cytology including inflammation, infection and neoplasia. Evaluation of clinical chemistry data.

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.

856  Concepts in Toxicologic Pathology
Summer of odd years. 2(2-0) 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.

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  Clinical Laboratory Diagnosis of Infectious Diseases
Spring of even years. 2(2) R: Approval of department.
Interdepartmental with Medical Technology. Administered by Medical Technology Program. RB: (MMG 451 and MMG 464)
Laboratory techniques for diagnosing infectious diseases in humans. Emphasis on differential diagnosis and correlation of microbiological results with serology, hematology, and chemical pathology.

850  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.

851  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.

852  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.

854  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.
Master's thesis research.

855  Investigating the Lung
Fall of even years. 2(2-0) Interdepartmental with Large Animal Clinical Sciences; Physiology. Administered by Department of Large Animal Clinical Sciences. R: Open only to graduate students.
Integrative biology of the lung; structure and function; molecular, cellular, and organ responses to injury.

856  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.
Doctoral dissertation research.

PEDIATRICS — PED

523  Genetics for Medical Practice
Fall. 2 credits. Interdepartmental with Biochemistry and Molecular Biology. R: Restricted to students enrolled in the M.D. (CHM) or D.O. (COM) programs. SA: BCH 523 Not open to students with credit in PHD 523.
Basic principles of genetics for medical students.

526  Molecular Biology and Medical Genetics
Fall. 2 credits. Interdepartmental with Biochemistry and Molecular Biology. R: Restricted to students enrolled in the M.D. (CHM) or D.O. (COM) programs. SA: BCH 526 Not open to students with credit in PHD 523.
Basic principles of human medical genetics; storage and expression of genetic information; transmission of genetic information to progeny.

591  Special Problems in Human Development
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 36 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  Pediatrics Clerkship
Fall, Spring. Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open only to graduate-professional students in colleges of Human and Osteopathic Medicine.
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.