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 recommended. 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.

601. Human Development and Pediatric Sub-specialties
Fall, Spring, Summer. 6 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Experience in clinical, behavioral, and basic sciences related to pediatrics and human development.

602. Ambulatory Pediatrics
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Clinical experience in outpatient and community setting involving ongoing child health care.

603. Pediatric Infectious Diseases Clerkship
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Office, clinic, and inpatient experiences in evaluating and managing pediatric patients with infectious diseases.

604. Neonatology
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Clinical experience in neonates including follow up.

605. Pediatric Cardiology Clerkship
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Office, clinic, and hospital experience in diagnostic and therapeutic pediatric cardiology including special diagnostic procedures.

606. Pediatric Endocrinology and Metabolism Clerkship
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Clinic and hospital experience in evaluating patients with endocrine and metabolic disorders.

607. Pediatric Hematology and Oncology
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Clinical experience in evaluating and managing pediatric patients with common hematologic and oncologic disorders.

608. Pediatric Pulmonary Disease Clerkship
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 18 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Inpatient and outpatient clinical experiences in evaluating and managing pediatric patients with pulmonary problems. Diagnostic procedures, clinically relevant physiology, current research.

635. Core Competencies I
Spring, Summer. 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. A weekly seminar addressing core knowledge and skills from an interdisciplinary perspective.

637. Core Competencies II
Spring, Summer. 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. A weekly seminar addressing core knowledge and skills from an interdisciplinary perspective.

640. Advanced Comprehensive Care
Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course.
R: PHD 606. R: Open only to graduate-professional students in College of Human Medicine. Inpatient and outpatient clinical experiences in evaluating and managing pediatric patients with complex medical and pathophysiologic states. Emphasis on urban and rural underserved populations.

PHARMACOLOGY AND TOXICOLOGY

PHM Department of Pharmacology and Toxicology
College of Human Medicine
College of Osteopathic Medicine
College of Veterinary Medicine

350. Introductory Human Pharmacology
Fall, Spring. 3(3-0)

430. Drug Abuse
Fall of odd-numbered years. 3(0-0)
R: Not open to freshmen and sophomores. Pharmacology, physiology, and neuroscience related to the pharmacodynamics of drugs of abuse.

450. Introduction to Chemical Toxicology
Spring. 3(0-0)
R: Not open to freshmen and sophomores. Mammalian toxicology. Disposition of chemicals in the body, detoxication, elimination, and mechanisms of toxicity in major organ systems. Selected toxic agents.

480. Special Problems
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course.
R: Approval of department. Not open to students with credit in PIM 350 or PIM 430. Individual work on selected research problems.

556. Veterinary Pharmacology
Spring. 3(0-0)
R: Completion of 2 semesters of the graduate-professional program in the College of Veterinary Medicine. Not open to students with credit in PHM 554 or PHM 555. Determinants of toxic responses. Analytical toxicology, genetic toxicology, and toxic management. Diagnosis, prevention, and treatment of common toxicoses.

563. Medical Pharmacology
Summer. 3(0-0)
R: Graduate-professional students in colleges of Human and Osteopathic Medicine. General principles of pharmacology and selected drugs. Rational drug therapy.

565. Research Problems in Pharmacology and Toxicology
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Completion of 4 semesters of the graduate-professional program in the College of Veterinary Medicine. Approval of department. Selected research problems in pharmacology or toxicology.

810. Synaptic Transmission
Spring of odd-numbered years. 3(0-0)
R: Approval of department. Chemical and electrical aspects of nerve impulse transmission at synaptic and neuromuscular junctions. Influence of drugs.

812. Cardiovascular Pharmacology
Spring of even-numbered years. 3(0-0)
R: Approval of department. Cardiovascular signal transduction and control in normal and pathophysiologic states.

814. Advanced Principles of Toxicology
Spring of even-numbered years. 3(0-0)

815. Concepts in Tumorigenesis
Fall. 2(2-0)
R: BCH 461, PSL 492, PSL 460. R: Approval of department. Examination and discussion of literature in tumorigenesis.

817. Advanced Neurotoxicology
Spring of odd-numbered years. 3(0-0)
R: Approval of department. Experiments in animal science. Not open to students with credit in PIM 480. Types of damage occurring in the nervous system. Unique forms of neurotoxicity associated with specific groups of neurotoxicants.