PEDIATRICS AND HUMAN DEVELOPMENT

Courses are subject to revision and final approval.

Descriptions of Courses

604*. Pediatric Pulmonary Disease Clerkship
Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 12 credits.
R: PHD 600. Open only to graduate-professional students in College of Human Medicine.
Inpatient and outpatient clinical experiences relevant to physiology, current topics in pediatrics.
QA: PED 604

580*. Health Professionals' Role in the Treatment of Substance Abuse Spring. 1(0-0)
R: Open only to graduate and graduate-professional students in the colleges of Human Medicine, Nursing, and Osteopathic Medicine or approval of department.
Practical knowledge base for recognizing and dealing with individuals affected by substance abuse.
QA: PED 580

590*. Special Problems in Pediatrics
Fall, Spring, Summer. 1 to 8 credits. May reenroll for a maximum of 8 credits.
R: Open only to graduate-professional students in the College of Osteopathic Medicine. Approval of department.
Experimental, theoretical, or applied problems under faculty direction.
QA: PED 590

600*. Pediatrics Clerkship
Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits.
R: Open only to graduate-professional students in the College of Osteopathic and Human Medicine. 2 years of medical school; approval of department.
Practical clinical exposure in the area of pediatrics.
QA: PED 600

630*. Directed Studies
Fall, Spring, Summer. 2 to 24 credits. May reenroll for a maximum of 48 credits.
R: PED 600. Open only to graduate-professional students in the College of Osteopathic Medicine. Approval of department.
Study in general or specialty pediatrics.
QA: PED 630

PHARMACOLOGY AND TOXICOLOGY

350*. Introductory Human Pharmacology
Fall, Spring. 3(3-0)
R: PSL 240; PSL 241 or concurrently R: Sophomores or higher.
General principles, CNS and autonomic nervous system, cardiovascular and renal drugs; chemotherapeutic agents, other selected basic pharmacological topics.
QA: PHM 350

430*. Drug Abuse
Fall of odd-numbered years, 3(3-0)
R: Juniors and above. Lower classes-approval of Dept.
Fundamentals of pharmacology, physiology and neurosciences for a basic understanding of the pharmacodynamics of drugs of abuse; survey of other aspects of drug abuse.
QA: PHM 430

450*. Introduction to Chemical Toxicology
Spring. 3(3-0)
F: PSL 810, 211 and 212; CEN 242 R: Juniors and above.
Basic concepts of mammalian toxicology, including disposition of chemicals in the body, detoxication, elimination, and mechanisms of toxicity in major organ systems. Selected toxic agents discussed.
QA: PHM 450

458*. Special Problems
Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 9 credits.
R: Approval of individual faculty member each term.
Limited amounts of individual work on selected research problems of graduate students.
QA: PHM 458

554*.* Veterinary Pharmacology and Toxicology I
Fall. 3(3-0)
P: Completion of Year 1 of the College of Veterinary Medicine. R: 2nd Year College of Veterinary Medicine Veterinary Medicine none.
Drug absorption, distribution, biotransformation, elimination, receptor theory and pharmacogenetics; chemical toxicity; autonomic nervous system, cardiovascular and renal pharmacology.
QA: PHM 554

555*.* Veterinary Pharmacology and Toxicology II
Spring. 3(3-0)
P: Completion of Year 1 of the College of Veterinary Medicine. R: 2nd Year College of Veterinary Medicine Veterinary Medicine none.
Endocrine, antiseptic and central nervous system pharmacology; antimicrobial agents, antimicrobial, antihelminthics, antiparasitics.
QA: PHM 555

556*.* Veterinary Pharmacology
Fall. 5(5-0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none.
General principles of pharmacology (drug absorption, disposition, biotransformation, excretion, pharmacokinetics), pharmacologic agents of the autonomic nervous, cardiovascular, renal, central nervous, endocrine and gastrointestinal systems.
QA: PHM 556

557*.* Veterinary Toxicology
Spring. 3(3-0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none.
Principles of toxicology (determinants of toxic responses, analytical toxicology, genetic toxicology, toxic management, diagnosis, prevention, and treatment of common toxicoses).
QA: PHM 557

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

594*.* Veterinary Toxicology
Spring. 3(3-0)
P: Completion of Year 2 of the College of Veterinary Medicine. R: 2nd Year College of Veterinary Medicine Veterinary Medicine none.
Pharmacological basis and pathological features of effects of drugs and poisons on animals used in biomedical research with emphasis on clinical manifestations, diagnosis, prevention and treatment.
QA: PHM 594

810*.* Synaptic Transmission
Spring of odd-numbered years. 3(0-0)
F: Approval of Department.
Major and electrical aspects of nerve impulse transmission at synaptic and neuroeffector junctions. Effects of drugs on these processes.
QA: PHM 810

815*.* Cardiovascular Pharmacology
Spring of even-numbered years. 3(0-0)
R: PHM 819 or equivalent.
Biocological, molecular and physiological mechanisms of toxicology; responses of major organ systems to chemical insult; mechanisms of mutagenesis and carcinogenesis.
QA: PHM 815

821*.* Clinical Pharmacology
Spring of odd-numbered years. 2(2-0)
R: PSL 451, 452, 453 and 454 or equivalent; PSL 431 432 and 433 or equivalent; R: Approval of department. Examination and discussion of literature for each topic in toxicology.
QA: PSL 451

827*.* Advanced Neurobiology
Fall. 1(0-0)
R: Graduate Students. Approval of department.
Comprehensive overview of the major general principles necessary to understand the interaction of chemicals with biological systems.
QA: PHM 821

839*.* Systems Neuroscience
Spring of odd-numbered years. 4(0-0)
R: Graduate Students.
Anatomy, pharmacology, and physiology of multicellular neural systems, including major sensory, motor, autonomic and chemo-regulatory systems in brain of vertebrates.
QA: PHM 839

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.