PEDIATRICS AND HUMAN DEVELOPMENT

608* Pediatric Pulmonary Disease

Clerkship Fall, Spring, Summer. 6 to 12 credits

in increments of 6 credits. May reenroll for a maximum of 12 credits.

P: PHD 600. R: Open only to graduate professional students in College of Human Medi-

Inpatient and outpatient clinical experiences in evaluating and managing pediatric patients with pulmonary problems. Diagnostic procedures, clinically

PEDIATRICS

PED

Health Professionals' Role in the Treatment of Substance Abuse Spring. 1(01-00) 580*.

relevant physiology, current research.

R: Open only to graduate and grad-uate-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 colleges of Osteopthic and Human Medicine. 2 years of medical school; approval of department.

Practical clinical exposure in the area of pediatrics. QA: PED 600

Directed Studies 820*.

Fall, Spring, Summer. 2 to 24 credits. May reenroll for a maximum of 48

credits.
P: PED 600. R: Open only to graduate-professional students in the College of Osteopathic Medicine. Approval of department. Study in general or specialty pediatrics. QA: PED 620

PHARMACOLOGY AND TOXICOLOGY

PHM

350*. Introductory Human

Pharmacology Fall, Spring. 3(3-0) P: PSL 240; PSL 241 or concurrently R:

Sophormores or higher General principles, CNS and autonomic nervous system, cardiovascular and renal drugs; chemotherapy; other selected basic pharmacology topics. OA: 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 neuroscience for a basic understanding of the pharmacodynamics of drugs of abuse; survey of other aspects of drugs of abuse QA: PHM 430

450*. Introduction to Chemical

Toxicology Spring. 3(3-0) P: BS 210, 211 and 212; CEM 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

480*. special problems

Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 9 credits.

P: Approval of individual faculty member

each term. Limited amounts of individual work on selected research problems for undergraduate students.

QP: PHM 350 PHM 430 QA: PHM 480

Veterinary Pharmacology and 554*. Toxicology I

Fall. 3(3-0)
P: Completion of Year 1 of the College of Veterinary Medicine. R: Year 2 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: Year 2 College of Veterinary Medicine Veterinary Medicine none

Endocrine, antacoid and central nervous system pharmacology; chemotherapy; antimicrobials, antihelminthics, antineoplastics. QA: PHM 555

Veterinary Pharmacology Fall. 5(5-0) 556*.

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 gastrointestional systems.

557*. Veterinary Toxicology

Spring. 2(2-0)
P: Admission to the College of Veterinary
Medicine. R: College of Veterinary Medicine Veterinary

Principles of toxicology (determinants of toxic responses, analytical toxicology, genetic toxicology, toxin management); diagnosis, prevention, and treatment of common toxicoses.

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.

594*. Veterinary Toxicology

Spring. 3(3-0)
P: Completion od Year 2 of the College of

Veterinary Medicine. R: Year 3 College of Veterinary Medicine Veterinary Medicine none Pharmacological basis and pathological features of diseases of animals caused by common toxic chemicals with emphasis on clinical manifestations, diagnosis, prevention and treatment.

810*.

Synaptic Transmission Spring of odd-numbered years. 3(03-00)

R: Approval of Department
Major and electrical aspects of nerve impulse transmission at synaptic and neuroeffector junctions. Influence of drugs on these processes. QA: PHM 810

813*. Cardiac Pharmacology

Spring of even-numbered years.
3(03-00)
P: PHM 819, PHM 820 R: Graduate
Students Approval of Department
Effects of drugs on normal physiological and biochemi-

cal processes in cardiac cells QA: PHM 813

814*. Advanced principles of Toxicology Spring of even-numbered years. 3(03-00)

P: PHM 819 or equivalent

Biochemical, molecular and physiological mechanisms of toxicology; responses of major organ systems to chemical insult; mechansisms of mutagenesis and carcinogenesis. QA: PHM 814

Concepts in Tumorigenesis Spring of odd-numbered years. 2(02-00) 815*.

P: BCH 451, 452 and 453 or equivalent;
PSL 431 432 and 433 or equivalent;

R: Approval of department Examination and discussion of literature for each

topic in tumorigenesis. QP: PSL 433 BCH 453 QA: PHM 815

819*. Principle of Drug-Tissue Interactions Summer. 5(05-00)

R: Graduate Students Approval of de-

partment

Comprehensive overview of the important general principles necessary to understand the interaction of chmicals with biological systems. QA: PHM 819

820*.

Drug Actions, Effects and Uses Fall. 5(05-00) P: PHM 819 R: Graduate Students

Approval of Department Comprehensive presentation of the major priciples of how the major drugs act physiologically and biochemically. QA: PHM 821

827*.

Advanced Neurobiology
Fall. 4(04-00) Interdepartmental with the Department(s) of Zoology, Physiology,.

R: Graduate students Approval of depart-

ment

Function of nervous system at cellular level: membrane biophysics and potentials, synaptic transmis-QA: PHM 827

839* Systems Neuroscience

Spring of odd-numbered years. 4(04-00) Interdepartmental with the Department(s) of Anatomy, Physiology,. R: Graduate students

Anatomy, pharmacology, and physiology of multicellu-lar neural systems, including major sensory, motor, autonomic and chemo-regulatory systmes in brain of vertebrates. *QA: PHM 839*