PHARMACOLOGY AND TOXICOLOGY

PHM

College of Human Medicine
College of Osteopathic Medicine
College of Veterinary Medicine

350. Introductory Human Pharmacology
Fall, Spring. 3 (3-0)
P: PSL 250. R: Not open to freshmen.
QA: PHM 450

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

450. Introduction to Chemical Toxicology
Spring. 3 (3-0)
P: RS 110, PSL 111, CRM 251. R: Not open to freshmen and sophomores.
Mammalian toxicology. Disposition of chemicals in the body, detoxification, elimination, and mechanisms of toxicity in major organs. Selected toxic agents.
QA: PHM 450

480. Special Problems
Fall, Spring. 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 PHM 850 or PHM 480.
Individual work on selected research problems.
QA: PHM 480, PHM 400 QA: PHM 480

554. Veterinary Pharmacology and Toxicology I
Fall. 3 (3-0)
R: Completion of the first year of the graduate-professional program in the College of Veterinary Medicine. Not open to students with credit in PRE 554.
QA: PHM 554

555. Veterinary Pharmacology and Toxicology II
Spring. 4 (4-0)
R: Completion of the first year of the graduate-professional program in the College of Veterinary Medicine. Not open to students with credit in PRE 554.
Endocrine, autonomic and central nervous system pharmacology, chemotherapy, antioxidants, antibacterials, and antineoplastics. Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.
QA: PHM 555

556. Veterinary Pharmacology
Fall. 5 (5-0)
R: Completion of 2 semesters of the graduate-professional program in the College of Veterinary Medicine. Not open to students with credit in PRE 554 or PHM 555.
Drug absorption, disposition, biotransformation, and renal pharmacology. Pharmacologic agents of the autonomic nervous, cardiovascular, renal, central nervous, endocrine, and gastrointestinal systems.
QA: PHM 556

557. Veterinary Toxicology
Spring. 2 (2-0)
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.
Determinants of toxic responses, analytical toxicology, genetic toxicology, and toxigenic 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.

594. Veterinary Toxicology
Spring. 3 (3-0)
R: Completion of the second year of the graduate-professional program in the College of Veterinary Medicine. Not open to students with credit in PHM 557.
Pharmacological basis and pathological features of animal diseases caused by common toxic chemicals. Clinical manifestations, diagnosis, prevention, and treatment.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1995.
QA: PHM 594

655. 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: Approval of department. Effect of drugs on normal physiological and biochemical processes in cardiac cells.
QA: PHM 655, PHM 555, PHM 594

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

813. Cardiac Pharmacology
Spring of odd-numbered years. 3 (3-0)
P: PHM 820. R: Open only to graduate students. Approval of department.
Biochemical, molecular and physiological mechanisms of toxicity. Disposition of major organ systems to chemical insult. Mechanisms of mutagenesis and carcinogenesis.
QA: PHM 813

814. Advanced Principles of Toxicology
Spring of odd-numbered years. 3 (3-0)
P: PHM 819. R: Open only to graduate students. Approval of department.
Biochemical, molecular and physiological mechanisms of toxicity. Disposition of major organ systems to chemical insult. Mechanisms of mutagenesis and carcinogenesis.
QA: PHM 814

815. Concepts in Tumorigenesis
Spring of even-numbered years. 2 (2-0)
P: BCH 462, PSL 432, PHM 460. R: Approval of department.
Examination and discussion of literature in tumorigenesis.
QA: PSL 433, BCH 453 QA: PHM 815

819. Principle of Drug-Tissue Interactions
Summer. 5 (5-0)
R: Open only to graduate students. Approval of department.
General principles relevant to the interaction of chemicals with biological systems.
QA: PHM 819

820. Drug Actions, Effects and Uses
Fall. 5 (5-0)
P: PHM 819. R: Open only to graduate students. Approval of department.
Major principles of physiological and biochemical actions of major drugs.
QA: PHM 820, PHM 821

870. Research Rotation
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: Open only to first- year graduate students in Pharmacology and Toxicology. Approval of department.
Individual work on selected research problems.
QA: PHM 870

889. Master's Thesis Research
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: Open only to graduate students. Approval of department.
Discussion of recent topics in pharmacology and toxicology by faculty or invited outside speakers. Student research reports.
QA: PHM 889

910. Seminar
Fall, Spring. 1 (1-0) A student may earn a maximum of 3 credits in all enrollments for this course.
R: Open only to graduate students. Approval of department.
Discussion of recent topics in pharmacology and toxicology by faculty or invited outside speakers. Student research reports.
QA: PHM 910

980. Problems
Fall, Spring. 2 to 5 credits. A student may earn a maximum of 20 credits in all enrollments for this course.
R: Open only to graduate students. Approval of department.
Limited work in selected research projects.
QA: PHM 980

999. 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: Open only to graduate students in Pharmacology and Toxicology. Approval of department.
QA: PHM 999

PHILOSOPHY

PHL

Department of Philosophy
College of Arts and Letters

130. Logic and Reasoning
Fall, Spring. 3 (3-0)
R: Not open to students with credit in PHL 330. Deductive and inductive reasoning. Topics such as natural argumentation, fallacies, definition, meaning, truth and evidence. Techniques for critical reading and thinking.
QA: PHL 103

200. Introduction to Philosophy
Fall, Spring. 3 (3-0)
Theories of knowledge, values, and reality. Topics such as objectivity, relativism and cultural diversity, moral responsibility, aesthetic values, the self, existence of God, free will, minds and machines.
QA: PHL 101, PHL 102, PHL 330

210. History of Western Philosophy: Ancient and Medieval
Fall, 3 credits.
Greek philosophy with emphasis on Plato and Aristotle; Roman philosophy; and medieval philosophy.
QA: PHL 211