PEDIATRICS PED

(Established effective January 1, 1979.)
College of Osteopathic Medicine

590. Special Problems in Pediatrics
Fall, Winter, Spring. Summer 1 to 8 credits. Approval of department.
Each student will work under direction of a faculty member on an experimental, theoretical or applied problem.

600. Pediatrics Clerkship
(O M 652) Fall, Winter, Spring, Summer. 8 credits. Grade F in all courses offered in terms 1 through 8 or approval of department.
Practical clinical exposure in the area of pediatrics. Program developed to achieve proficiency in motor skills and attitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management and therapy.

620. Directed Studies
Fall, Winter, Spring, Summer. 2 to 24 credits. PED 600 or approval of department.
Study in general or specialty pediatrics.

PHARMACOLOGY AND TOXICOLOGY PHM

(Effective July 1, 1978. Formerly Department of Pharmacology)

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

350. Introductory Human Pharmacology
Spring. 3(3-0) PSL 423 or PSL 241 or concurrently or approval of department.
General principles; central nervous system, autonomic nervous system, cardiovascular and renal drugs; chemotherapy, and other selected basic topics.

430. Drug Abuse
Fall of odd-numbered years. 4(4-0)
Juniors or approval of department. Biology and chemistry recommended.
Actions, mechanisms of action, toxicity and uses of drugs of abuse. Sociological and psychological aspects of drug abuse and the legal aspects of the sale and distribution of drugs are considered.

480. Special Problems
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 9 credits. Approval of department.
Limited amounts of individual work on selected research problems for undergraduate students.

520A. Principles of Pharmacology
Fall. 4(4-0) PSL 500B, PSL 500C.
Drug absorption, distribution, biotransformation, elimination, receptor theory and pharmacogenetics; chemical toxicity; autonomic nervous system, cardiovascular and renal pharmacology.

520B. Principles of Pharmacology
Winter. 4(4-0) PSL 500A; BCH 501.
Drug absorption, distribution, biotransformation, elimination, antagonism, receptor theory and pharmacogenetics. Chemotherapy: antineoplastic, antiviral and antimicrobial agents. Toxicology and emergency therapies. Pharmacology related to the autonomic nervous system.

521A. Pharmacodynamics
Winter. 5(4-2) PSL 502A. Primarily for students of Veterinary Medicine.
Endocrine, autonomic and central nervous system pharmacology; chemotherapy; antimicrobials, antihelminthics, antineoplastics.

521B. Pharmacodynamics
Spring. 4(4-0) PSL 520B or PSL 520A
Pharmacology of the central and peripheral nervous systems. Cardiovascular, renal and gastrointestinal drugs. Endocrine and autonomic pharmacology.

810. Synaptic Transmission
Winter of odd-numbered years. 4(4-0)
Approval of department.
Chemical and electrical aspects of nervous impulse transmission at synaptic and neurotransmitter junctions and influences of drugs upon these processes. Intrinsic neuronal circuitry; tetanic formation; thalamus; neocortex; cerebellum.

811. Advanced Renal and Autocoid Pharmacology
Spring of even-numbered years. 4(4-0)
PHM 521A or PSL 521B and approval of department.
Advanced concepts and current topics in renal and autacoid pharmacology.

812. Advanced Principles of Pharmacology
Fall. 3(2-0) PSL 521A or PSL 521B; approval of department.
Pharmacodynamics, drug-receptor interactions, computer modeling, drug metabolism.

813. Cardiovascular Pharmacology
Winter of even-numbered years. 4(4-0)
PHM 520A, PSL 521A or PSL 520B, PSL 521B; PSL 501, PSL 502, PSL 503; and approval of department.
Effects of drugs on normal physiological and biochemical processes in cardiac cells are studied. Emphasis is placed on mechanisms of drug action.

814. Advanced Principles of Toxicology
Spring of even-numbered years. 4(4-0)
PHM 812.
Current biochemical and physiological mechanisms of toxicity on major organ systems. Mechanisms of mutagenicity, carcinogenicity and teratology.

870. Problems
Fall, Winter, Spring. Summer. 2 to 4 credits. May reenroll for a maximum of 12 credits. Approval of department.
Limited amounts of individual work on selected research problems for first year graduate students in the Department of Pharmacology and Toxicology.

899. Master's Thesis Research
Fall, Winter, Spring. Variable credit. Approval of department.
Individual work on research problems for the master's degree in pharmacology.

910. Seminar
Fall, Winter, Spring. 1(1-0) May reenroll for a maximum of 3 credits. Approval of department.
Discussion of recent topics on pharmacology by departmental or outside speakers, or reporting of research efforts by graduate students of the Department of Pharmacology and Toxicology.
PHILOSOPHY

College of Arts and Letters

Each of the courses PHL 101, PHL 102, PHL 103 is an independent gateway to an area of philosophy. Together they provide a comprehensive introduction to philosophical inquiry through contact with philosophical issues.

101. Introduction to Philosophy: Ethics and Value (A)
Fall, Winter, Spring, Summer. 3(3-0)
Students may not receive credit for both PHL 101 and PHL 330.

Introduction to the nature of the right and the good, addressed to such fundamental problems as the objectivity of moral judgments, the criteria of right and wrong, and the grounds of moral responsibility.

102. Introduction to Philosophy: Knowledge and Reality (A)
Fall, Winter, Spring, Summer. 3(3-0)

An introduction to deductive and inductive reasoning and of such topics as logical arguments, fallacies, definition, meaning, truth, and evidence. Designed to improve students' capacities to read and think critically.

120. Classics of Philosophical Literature (A)
Fall, Winter, Spring. 4(4-0)

An introduction to contrasting classics of literary and philosophical importance. Primary texts from such philosophers as Plato, Lucretius, Descartes, Hume, Nietzsche, James, Russell and Sartre will be read and discussed.

200H. Honors Work
Fall, Winter, Spring. 1 to 16 credits. Approval of department.

211. Ancient Philosophy (A)
Fall, Winter, Spring. 3(3-0)

An introduction to the history of philosophy: the Greek and Roman periods, with emphasis on Plato and Aristotle.

212. Medieval and Early Modern Philosophy (A)
Winter, Spring. 3(3-0) PHL 211 recommended.

An introduction to the history of philosophy: the Middle Ages to the rise of modern science, with emphasis on Aquinas, Descartes, Spinoza and Leibniz.

213. Modern Philosophy (A)
Fall, Spring. 3(3-0) PHL 212 recommended.

An introduction to the history of philosophy: the Enlightenment to the nineteenth century, with emphasis on Hume and Kant and such other philosophers as Locke, Berkeley, Hegel, Kierkegaard and Nietzsche.

294. Special Topics
Fall, Winter, Spring, Summer. 2(2-0) to 6(6-0) Approval of department.

Intensive study of some particular problem or author in philosophy.

311. Indian Philosophy
Fall, Winter, Spring. 3(3-0)

Metaphysical, ethical and social theories developed within major Indian philosophical systems; e.g., philosophical Buddhism, Vedantist transcendentalism, Samkhya dualism, and the Realist schools.

312. Chinese Philosophy
Spring. 3(3-0)

Major cosmological and ethical doctrines of such Chinese authors and movements as Confucius, Mo Tzu, Lao Tzu, Taoism, Yin-Yang dualism, Buddhist, and Chinese influence on the West, the new China.

315. American Philosophy
Spring, Summer. 3(3-0) Three credits in philosophy or approval of department.

Examination of such thinkers as Royce, Pierce, James, Dewey, Whitehead and Santayana, illustrating the contribution to philosophy.

323. Existentialism
Fall, Winter, Spring. 3(3-0) Three credits in philosophy or approval of department.

An examination of a major existentialist author (or authors), so designed as to place existentialist views in significant relation to the tradition of European thought.

330. Elements of Ethics
Fall, Winter, Spring. 3(3-0) Juniors, Students may not receive credit for both PHL 101 and PHL 330.

An inquiry into the nature of the right and the good, addressed to such fundamental problems as the objectivity of moral judgments, the criteria of right and wrong, and the grounds of moral responsibility.

337. Logic I
Fall, Winter, Spring. 4(4-0)

Modern symbolic methods in deductive reasoning. The logic of connectives and quantifiers.

338. Logic II
Fall, Winter, Spring. 4(4-0) PHL 337 or approval of department.

The logic of identity, functions, and descriptions. Theory-building: axioms, definitions, theorems.

340. Moral Problems in Medicine and the Life Sciences
Fall, Winter, Spring, 4(4-0) Juniors.

Philosophical aspects of euthanasia, allocation of scarce medical resources, experimentation and informed consent, truth telling and the doctor-patient relationship, genetic counseling, genetic engineering, behavior control, and health care delivery.

341. Philosophical Aspects of Feminism
Fall, Winter, Spring. 4(4-0)

Conceptual issues in feminist theory. Such concepts as oppression, sexism and chauvinism, feminist separatism, rape and self-respect, personality, power and control and feminism will be analyzed and explored.

350. Philosophy of Art
Fall, Winter, Spring. 3(3-0) Three credits in philosophy or 6 credits in art, music, or literature.

Inquiry into the principles of artistic activity made with a view to determining the conditions upon which art is produced, the nature of its product, and the sources of its value.

351. Contemporary Esthetic Theory
Winter, Spring. 3(3-0) Three credits in philosophy or 6 credits in art, music, or literature.

Critical examination of contemporary theories in aesthetics and the philosophy of art, in which the primary categories of reflection upon the arts have gained their currency. Readings from such authors as Toltkey, Santayana, Croce, Bullough, Freud, Parker, Frall, Greene.

355. Philosophy of Religion
Winter, Spring. 3(3-0) Three credits in philosophy or 6 credits in religious studies or approval of department.

Alternative philosophical approaches to religion as a personal and/or social phenomenon. Contemporary problems of evidence and obligation in the relations of religious beliefs and practices.

360. Philosophy of Law
Fall, Winter, Spring. 3(3-0) Three credits in philosophy or 6 credits in political science or approval of department.

Philosophic examination of such legal concepts as punishment, responsibility, rights and duties, judicial decisions and justice, and such legal theories as natural law, positivism and realism.

361. Philosophy of Technology
Fall, Winter, Spring. 4(4-0) Sophomores or approval of department. Interdepartmental with and administered by Lyman Briggs College.

Is our technology desirable? Are its social forms desirable? What alternatives are there? Students will develop and defend their own appraisals of technology.

365. Social and Political Philosophy
Winter, Spring. 3(3-0) Three credits in philosophy or 6 credits in political science or approval of department.

Philosophical approaches to political authority and individual liberty. Consideration of such theories as natural law, social contract, utilitarianism and historicism.