Descriptions – PATHOLOGY of Courses

999. Advanced Correlative Pathology
Fall. Winter, Spring, Summer. 5(0-15)
May reenroll for a maximum of 15 credits. Approval of department. Experience in morphologic and clinical pathology and correlation of these with the clinical aspects of disease.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

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. 6 or 8 credits. Grade P 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 aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management and therapy.

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

PEDIATRICS AND HUMAN DEVELOPMENT PHD (Name changed July 1, 1979. Formerly Department of Human Development.)

College of Human Medicine

520. Genetics Clinic
Fall, Winter, Spring. Summer. 1 to 3 credits. May reenroll for a maximum of 9 credits. Students will interview and examine patients with inheritable disorders, perform related laboratory diagnostic procedures, and participate in genetic counseling conferences and discussions.

531. Medical Genetics
Spring. 1(1-0) ANT 544 or approval of department. Basic genetic principles and their application to clinical medicine; prenatal genetic diagnosis, exercises in genetic counseling and the importance of relevant laboratory tests.

532. Phenomena of Development
Fall. 5(5-8) PHD 531 or approval of department. Normal psychological and physical development of the human including intellectual, social, emotional and psychosocial growth from infancy through adolescence. Clinical examples highlight deviations from the normal course of development.

590. Special Problems in Human Development
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Human Medicine students or approval of department. Each student will work under direction of a staff member on an experimental, theoretical or applied problem.

608. Pediatric Specialty Clerkship
Fall, Winter, Spring. Summer. 1 to 17 credits. May reenroll for a maximum of 34 credits. HM 602; primary clerkship. Clinical experience with pediatric patients under the direction of members of the faculty of the Department of Human Development and community pediatricians, Fall, Saginaw, Winter, Lansing, Spring, Grand Rapids, Summer, Flint.

609. Human Development and Pediatric Sub-Specialities
Fall, Winter, Spring. Summer. 1 to 17 credits. May reenroll for a maximum of 34 credits. HM 602. Elected experiences in selected clinical and basic sciences related to pediatrics and human development.

610. Ambulatory Pediatrics
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. PHD 608. Clinical experience in outpatient and community settings involving ongoing child health care including chronic medical illnesses and common behavioral problems.

611. Infectious Diseases
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. PHD 608. Combined office or clinic and inpatient experience in evaluating and managing pediatric patients with infectious diseases.

612. Neonatology
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. PHD 608. Clinical experience involving modern neonatal techniques and care patterns for the sick neonate.

613. Pediatric Cardiology
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. PHD 608. Office, clinic and hospital experience in diagnostic and therapeutic pediatric cardiology including special diagnostic procedures.

614. Pediatric Endocrinology and Metabolism
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. PHD 608. Clinic and hospital experience in evaluating patients with endocrine and metabolic disorders.

615. Pediatric Hematology and Oncology
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. PHD 608. Clinical experience in evaluating and managing pediatric patients with hematologic and oncologic disorders.

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 432 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.

503. Cell Biology
Fall. 5(5-0) Admission to the College of Human Medicine. Interdepartmental with the departments of Biochemistry, Microbiology and Public Health, and Physiology. Administered by the Department of Microbiology and Public Health. Principles of cell biology for medical students.

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

520B. Principles of Pharmacology

520A. Pharmacodynamics
Fall. 4(4-0) PSL 500B. PSL 500C. Primarily for students of Veterinary Medicine. Endocrine, autonomic and central nervous system pharmacology; chemotherapy; antimicrobials, antihelmintics, antineoplastic.
999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer.
Variable credit. Approval of department. Individual work on research problems for the doctoral degree in pharmacology.

PHILOSOPHY

PHL

College of Arts and Letters

Each of the courses PHL 101, PHL 102, PHL 103 is an independent gateway to a major area of philosophy. Together they provide a comprehensive introduction to philosophical inquiry. The courses may be taken independently and in any order.

101. Introduction to Philosophy: Ethics and Value (A)
Fall, Winter, Spring, Summer. 3(3-0)
Students may receive credit for both PHL 101 and PHL 102. 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.

102. Introduction to Philosophy: Knowledge and Reality (A)
Fall, Winter, Spring, Summer. 3(3-0)
An examination of such basic philosophical problems as free will and determinism, the existence of God, the relation of mind and body, and the scope and limits of human knowledge.

103. Introduction to Philosophy: Logic
Fall, Winter, Spring, Summer. 3(3-0)
An examination of deductive and inductive reasoning and of such topics as rational argumentation, fallacies, definitions, 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 classes 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. 0-6(0) Approval of department.
Intensive study of some particular problem or author in philosophy.

311. Indian Philosophy
Fall, Winter. 3(3-0)
Metaphysical, ethical and social theories developed within major Indian philosophical systems, e.g., philosophical Buddhism, Vedantic transcendentalism, Shankya 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, Buddhism, responses to Western influences, the new Chics.

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 classic American contributions to philosophy.

323. Existentialism
Fall, Winter, Spring. 3(3-0) Three credits in philosophy or approval of department.
Such authors as Husserl, Jaspers, Kierkegaard, Marcel, Nietzsche, Sartre and such topics as hope, anxiety, bad faith, subjectivity, freedom, social being, and phenomenological method.

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 criterion 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.