

**PHILOSOPHY COURSES (PHIL)**

**PHIL 100 INTRODUCTION TO PHILOSOPHY (3)** This course examines traditional philosophy problems with readings from major works in the history of Western philosophy. The basic principle of logic and major approaches to ethical decision-making are important parts of the course.

**PHIL 101 INTRODUCTION TO ETHICS (3)** This course introduces moral philosophy and its application to the problems of present-day living.

**PHIL 201 INTRODUCTION TO LOGIC (3)** This beginning course focuses on aspects of valid and invalid reasoning. Topics include definition, fallacious argumentation, the various uses to which language may be put, and elementary deduction.

**PHIL 214 GREEK PHILOSOPHY (3)** *Prerequisite: PHIL 100 or 101.* This introduction to Greek philosophy focuses primarily on Plato and Aristotle.

**PHIL 215 MEDIEVAL PHILOSOPHY (3)** *Prerequisite: PHIL 100 or 101.* Philosophical themes of the Middle Ages are related to the Neoplatonic and Aristotelian traditions as they influenced major thinkers of the period. Topics include wisdom as the goal of inquiry; the relation between faith and reason; the existence of God; the nature of humanity; and the immortality of the soul.

**PHIL 216 MODERN EUROPEAN PHILOSOPHY (3)** *Prerequisite: PHIL 100 or 101.* This study of seventeenth- and eighteenth-century European philosophers includes Descartes, Locke, Berkeley, Hume, and Kant.

**PHIL 217 CLASSIC AMERICAN PHILOSOPHERS (3)** *Prerequisite: PHIL 100 or 101.* This course is an analysis of the philosophy writings of major American philosophers from the Pragmatic and Idealistic schools including Charles Sanders Peirce, William James, and John Dewey.

**PHIL 220 ART, TRUTH, AND VALUE (3)** *Prerequisite: PHIL 100 or 101.* An introduction to the philosophy of the fine arts, this course includes an examination of various definitions of art, discussions of the value of art to society, and an analysis of emotions found in the esthetic experience.

**PHIL 221 MEANING AND EXISTENCE (3)** *Prerequisite: PHIL 100 or 101.* This course examines the existential nature of human beings as they encounter and search for meaning in existence. Topics for discussion include such existential themes as authenticity, guilt, personal freedom, and the meaning of death. Course readings include the writings of theistic and atheistic existentialists.

**PHIL 222 GOD, FAITH, AND EVIL (3)** *Prerequisite: PHIL 100 or 101.* This course examines philosophical problems relating to religious faith.

**PHIL 223 ETHICAL ISSUES IN BUSINESS (3)** *Prerequisite: PHIL 100 or 101.* This course examines moral issues related to business, including conflicts of interest, the social responsibility of corporations, affirmative action, and preferential treatment.

**PHIL 224 ETHICAL ISSUES IN MEDICINE (3)** *Prerequisite: PHIL 100 or 101.* This course analyzes moral issues related to the areas of health care such as informed consent, abortion, physician-patient relationship, and the just distribution of health care.

**PHIL 225 ENVIRONMENTAL ETHICS (3)** *Prerequisite: PHIL 100 or 101.* An introduction to ethical issues and approaches concerning environmental studies. Topics to be addressed include the application of moral theory to various significant environmental issues, ethical treatment of animals, private ownership versus the common good, public policy and environmental concerns, and justice to current and future generations of humans.

**PHIL 305 PHILOSOPHY OF SCIENCE (3)** *Prerequisite: PHIL 100 or 101.* This introduction to the philosophy of science includes a study of the concepts of the empirical sciences, their methods and procedures, and their philosophical implications.

**PHIL 306 KNOWLEDGE AND REALITY (3)** *Prerequisite: PHIL 100 or 101.* This examination of the nature of knowledge places emphasis on the distinction between knowledge and belief, different types of knowing, the problem of skepticism, the role of perception in knowledge, and the nature of truth.

**PHIL 313 SYMBOLIC LOGIC (3)** *Prerequisite: PHIL 100 or 101.* This beginning course in symbolic formal logic introduces students to the formalization of arguments and the formal nature of deduction.

**PHIL 314 THE MIND AND BRAIN (3)** *Prerequisite: PHIL 100 or 101.* This course is an examination of various theories of what the mind is and its relation to the body. Concepts such as consciousness, belief, sensation, perception, and desire are discussed.

**PHIL 315 THE PHILOSOPHY OF LAW (3)** *Prerequisite: PHIL 100 or 101.* This course is an examination of various theories of what a legal system is. Attention is given to a number of related issues including the role of morality in the formation of a legal system, legal justice, the proper limits of state authority over an individual citizen's autonomy, and theories of punishment.

**PHIL 397 INDEPENDENT STUDY IN PHILOSOPHY (1-3)** *Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing.* This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

**PHIL 398 SPECIAL TOPICS IN PHILOSOPHY (1-3) [credit depends on topic]** *Prerequisite: A background of work in the discipline.* This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

**PHIL 400 THESIS GUIDANCE (3)** *Prerequisites: PHIL 100 or 101, and senior standing.* Supervision of senior thesis. Topic to be decided by student with approval of advisor.

## PHYSICS COURSES (PHYS)

**PHYS 141-142 COLLEGE PHYSICS (4, 4)** Three hours lecture and two hours laboratory each semester. This intensive algebra and trigonometry based physics course sequence is for students majoring in the natural sciences. The course is designed to meet the needs of students preparing for MCATs. Content of the course includes mechanics, properties of matter, thermodynamics, waves and sound, electricity and magnetism, optics, quantum physics, and nuclear physics. One laboratory per week.

**PHYS 161 PHYSICS I (4)** *Prerequisite: MATH 103 or concurrent enrollment in MATH 103.* Three hours lecture and two hours laboratory. This course is a calculus-based survey of classical physics, providing a background for persons who intend to use physics as a base for the physics major or for other science disciplines. The first semester introduces the student to Newton's laws including their application to statics and dynamics: to momentum and energy and their respective conservation principles; to rotational and angular quantities: and, if time allows, to the basic ideas of heat and thermodynamics.

**PHYS 162 PHYSICS II (4)** *Prerequisite: MATH 103, 104 (or concurrent enrollment in MATH 104), PHYS 141 or 161.* Three hour lecture and two hours laboratory. This continuation of a calculus based survey of classical physics introduces students to the physics of waves, including sound, to basic electromagnetic theory and optics.

**PHYS 181 SOLAR SYSTEM ASTRONOMY (4)** Three hours lecture and two hours lab. Basic overview of the properties of the planets, satellites, and minor members of the solar system. No prior experience in astronomy is required. Course meets the general education laboratory science requirement.

**PHYS 182 STELLAR ASTRONOMY (4)** Three hours lecture and two hours lab. Basic overview of current knowledge about the universe beyond the solar system. No prior experience in astronomy is required; course meets the general education laboratory science requirement.