

on analyzing and contrasting the viewpoints of certain major philosophers on the nature of man and ultimate reality; the problem of knowledge; the criteria of moral judgment; and the basic goals of human life. The relevance of the great philosophers to present-day issues is stressed.

PHI 102
Contemporary Philosophy . 3 cr.

PHI 101 is not a prerequisite. This course introduces students to philosophy through contemporary texts. Readings focus on the problem of meaning to explore analytic and continental philosophy. Philosophers studied include Sartre, Wittgenstein, Arendt, Cassirer, Dewey, Russell and others.

PHI 103
Critical Thinking 3 cr.

This course stresses sensitivity to form as it teaches the student to identify and evaluate different types of arguments found in ordinary language. Basic concepts include deduction, induction, soundness, validity, invalidity, formal and informal fallacies, clarifying meaning, assumption identification, and causal inferences.

PHI 104
Ancient and Medieval Philosophy 3 cr.

An alternate to PHI 101. An introduction to philosophy from an historical perspective; a systematic survey of the major philosophers from the ancient and medieval world; how they analyzed the great problems of nature, man, and society; how they were influenced by their culture and what significance they have for us today.

PHI 105
Renaissance and Modern Philosophy 3 cr.

A systematic survey of the major philosophers from the Renaissance to the beginning of the 20th century; how they analyzed the great problems of nature, man, and society; how they were influenced by their culture; and what significance they have for us today.

PHI 108
Black Social Philosophy. . . 3 cr.

(Dual listed with AFR 170)
An examination of the social philosophy of thinkers such as Du Bois, Garvey, King and Fanon. Particular attention is paid to oppression and the struggle for self-identity. The ideals of freedom, equality, justice and community are carefully considered.

PHI 110
Biomedical Ethics 3 cr.

An inquiry into the ethical problems raised by recent biomedical advances, research and clinical practice in our 20th-century culture. Genetic research, stem cell research, abortion, human experimentation, cloning, delivery of health care services, transplantation and allocation of scarce medical services, suicide and euthanasia are the main topics to be treated.

PHI 111
Business Ethics 3 cr.

This course explores the ethical dimensions of the conduct of business and shows how philosophical reflection can aid in the discovery of rational solutions to critical problems in the world of business and economics. By focusing on selected issues, such as individual and corporate morality, profit making and social conscience, advertising and consumerism, environmental ethics and resource development, the course highlights the conflicting interests that must be weighed in arriving at decisions of major importance to business and society. Contemporary materials and studies are utilized as well as readings from traditional philosophers.

PHI 201
Ethics and Law 3 cr.

Recommended for all students and especially pertinent for pre-Law, Criminal Justice and Public Administration students, the course examines the ethical foundations and moral implications of our legal tradition. Emphasis is placed upon the analysis of key concepts of legal and philosophical importance such as justice, freedom, equality, rights, duties and property. The course utilizes readings of contemporary relevance such as recent Supreme Court decisions as well as of historical influence. Topics discussed include human rights, natural law, social justice, environmental ethics and property rights, and capital punishment among others.

PHI 203 *alternate Years*
Philosophy of Art 3 cr.

A philosophical examination of the nature and value of art. Readings from major philosophers on art and its relation to religion, morals and culture in general. Specific works of art are used as illustrations.

PHI 204
Philosophy of Religion . . . 3 cr.

A critical examination of the nature of religion and varieties of religious experience. Topics considered include the nature and existence of God, miracles, reason and revelation, morality and religious experience. Readings are drawn from major philosophers and theologians.

PHI 208
Asian Philosophy and Religion 3 cr.

An examination of the major living Asian philosophies and religions: Hinduism, Buddhism, Zen Buddhism, Confucianism, and Taoism. The ethical, mystical and metaphysical dimensions of each are considered. Major texts from each tradition are placed in their historical contexts, read and discussed. The significance for us today is stressed.

Physics (PHY)

PHY 001
College Preparatory Physics 0 cr.

(Dual listed with CET 001 and ELT 001.)
A non-credit one-semester course for students lacking a high school background in physics. The course will cover selected topics in mechanics, hydraulics, heat, sound, light and electricity. Emphasis will be placed on problem solving. The theory will be heavily supplemented by demonstrations. Report writing and the reporting of experimental data will be stressed. (3 lecture, 3 laboratory hours) Laboratory fee applies.

PHY 101
General Physics I 4 cr.

Prerequisite: High school or college algebra and trigonometry or permission of the Department. Successful completion of all remedial English and remedial Reading requirements.

An introductory study of Physics designed to acquaint the student with the fundamentals of kinematics, Newton's Laws of motion, circular motion and gravitation, work and energy, impulse and momentum, simple harmonic motion, temperature, heat, and thermodynamics. The topics will be developed analytically and experimentally. (3 lecture, 3 laboratory hours) Laboratory fee applies.

PHY 102
General Physics II 4 cr.

Prerequisite: High school or college algebra and trigonometry, PHY 101 or equivalent, or the permission of the Department. Successful completion of all remedial English and remedial Reading requirements.

A continuation of the introductory study of Physics designed to acquaint the student with the fundamentals of wave motion and sound, electricity and magnetism, geometrical and physical (wave) optics, and selected topics in modern physics. The topics will be developed analytically and experimentally. (3 lecture, 3 laboratory hours) Laboratory fee applies.

PHY 110
Physics for Electronic Technology 4 cr.

Co-requisite: MAT 109 or MAT 116.
The course emphasizes an overview of the physical laws underlying selected topics in mechanics, thermodynamics, electromagnetism and optics, and modern physics. The laboratory component involves exercises that are illustrative of physical principles in these areas as well as methods of observation, measurement and data analysis. Laptop computer required. Laboratory fee applies.

PHY 120
Physics for Educators 4 cr.

Pre/co-requisites: Students must have a working knowledge of Algebra and Trigonometry or equivalent.
This course studies natural phenomena and everyday life. Covering the fundamental laws and principles of mechanics,

electricity, magnetism, sound and light, it provides a basic knowledge of the evolution of physical laws and the underlying concepts that are rapidly changing the way we live. The course material is developed descriptively and demonstrated experimentally. It includes student investigations in recitation and in lab to emphasize the experimental nature of science. Investigations will also be performed using computer software and the internet. The course will also include preparation of lesson plans, grading practices and hands-on experiences in the presentation of materials.

**PHY 122
Mechanics and Hydraulics . 4 cr.**

Prerequisite: Designed for students in Engineering, Physics, Mathematics, and the sciences.

Co-requisite: MAT 122.

An introduction to mechanics: fundamental laws of statics, dynamics, kinematics, work, energy, power and momentum. Applied problems as an integral part of the course. (5 lecture, 3 laboratory hours)

**PHY 123
Waves, Fluids, Heat. 4 cr.**

Prerequisite: PHY 122.

Co-requisite: MAT 123.

An introduction to mechanics: fundamental laws of statics, dynamics, kinematics, work, energy, power and momentum. Applied problems as an integral part of the course. (5 lecture, 3 laboratory hours)

**PHY 151
Physics for Scientists and Mathematicians I 4 cr.**

Co-requisite: MAT 122.

The first semester of a two-term survey course for students who intend to study Science, Mathematics or Computer Science at four-year institutions that require a calculus-based approach to physics. The topics covered during the first term are mechanics and thermodynamics. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**PHY 152
Physics for Scientists and Mathematicians II. 4 cr.**

Prerequisites: MAT 122 and PHY 151 or permission of Department.

The second half of a calculus-based physics survey course. The topics covered are wave phenomena, electricity, magnetism, light and modern physics. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**PHY 222
Electricity and Magnetism. . 4 cr.**

Prerequisite: PHY 123.

Co-requisite: MAT 225.

An introduction to the basic theory of electric and magnetic forces and energy associated with electric charge; electric and magnetic properties of matter, electromagnetic waves, geometric and wave properties of light. Emphasis is given to a rigorous mathematical formulation of physical principles, solution of problems, and practical applications of electric circuits in the laboratory. (5 lecture, 3 laboratory hours) Laboratory fee applies.

**PHY 223
Introduction to Modern Physics 3 cr.**

Prerequisites: MAT 225 and PHY 222 or permission of the Department.

A survey of 20th-century theories of the atom, the nucleus, relativity, quantum properties of waves and particles, wave mechanics, spectra of hydrogen and other atoms, x-rays, the uncertainty principle, radioactive decay, conservation laws in radioactivity, transmutations. Stress is placed on basic principles rather than on applications. (5 lecture hours)

**Political Science
(POL)**

**POL 101
Government and Politics in the Modern World 3 cr.**

This course compares and contrasts the major forms of government found in the contemporary world: democratic, authoritarian, and totalitarian. Illustrations and examples will be drawn from both Western and non-Western countries. A basic theme of the course will be the comparative advantages of democratic forms of government over the various alternatives found around the globe today.

**POL 111
Nassau County: History and Government 3 cr.**

(Dual listed with HIS 140)

A review of the development of what is now Nassau County from pre-Colonial times to the present day. Emphasis is placed upon the governmental-administrative structure of the county and the major problems facing urban-suburban communities. Field trips and guest speakers are utilized to complement class work.

**POL 205
American National Government 3 cr.**

An exploration of some of the significant areas and issues of contemporary American government and politics. Among the topics included are the scope of government activity in the United States today, the Constitution of the United States, and the evolution and operation of such political institutions as the Presidency, Congress, the Supreme Court and the political parties.

**POL 206
State and Local Government 3 cr.**

An introduction to the essential principles of American state and local government, with special emphasis on New York State, New York City and its suburbs. Among the specific topics covered are Federal-state relations, state constitutions and government structures, and the key issues of contemporary state, city and county politics.

**POL 208
Introduction to Public** *alternate years*

Policy 3 cr.

An examination of the substantive issues of public policy such as taxation, welfare and poverty, military spending, energy, the environment, federalism, criminal justice, health care, education, and civil liberties. The background to each subject, the evolution of the present day governmental policy, and alternatives to present policy are presented along with evaluations of present policies. While the primary focus is on the national level, the state and local level is examined. A secondary focus is on methods, models, and the legal aspects of the policy making process.

**POL 209
The U.S. Presidency. 3 cr.**

A comprehensive multidimensional study of the Institution of the Presidency, its evolution politically, administratively, and legally. The causes, effects, and dilemmas of the growth and power of the executive branch and the tension between an enhanced President and the Congress constitute a key perspective. Presidential politics in its electoral and policy foundation aspects will be highlighted. The President's role in the economy and as a mass media communicator will be explored.

**POL 210
The U. S. Congress 3 cr.**

The course will describe the legal structure, Constitutional powers, internal work rules and procedures, and the political dynamics of the Congress within the context of the American Federal political scheme. Special emphasis will be placed upon Congressional interactions with the coordinate branches of government as well as with external factors, such as interest groups and public opinion.

**POL 260
International Relations. . . 3 cr.**

Basic themes of the course are the causes of war and the prospects for peace in the modern world. Among the topics covered are the nature of modern warfare and the impact of nuclear weapons, the East-West struggle, the Third World, diplomacy and espionage as instruments of foreign policy, and the search for world order through international law and the United Nations.

**POL 261
Modern Political Ideologies. 3 cr.**

A survey of the major political ideologies of the world today—fascism, communism, socialism and democracy. Selected readings from the works of Marx, Lenin, Stalin, Mao, Hitler, Mussolini, Jefferson and Locke are used to supplement class lectures. The course offers students an understanding of the political ideas that have shaped the 20th century.

**Security Administration
(PSA)**

**PSA 111
Introduction to Security . . 3 cr.**

The historic, philosophical, practical and