PHI

Philosophy

PHI 100-B Concepts of the Person (II)
An historical introduction to philosophy through readings and discussion on topics such as human identity, human understanding, and human values.
3 credits

PHI 101-G Historical Introduction to Western Philosophy
An introduction to pivotal theories of the Western philosophic tradition. Readings may be drawn from ancient Greek, medieval, and modern classics of philosophy. Topics may include philosophic theories of politics, morality, logic, metaphysics, knowledge, anthropology, art, and religion.
3 credits

PHI 103-B Philosophic Problems (II)
An introduction to philosophy through the analysis of one or more aspects of contemporary life such as technology, war, international relations, families and friendships, or race, class and gender. A variety of texts are used.
3 credits

PHI 104-B Moral Reasoning (II)
An introduction to philosophy through inquiry into the formation, justification, and evaluation of moral judgments. Students are introduced to the major theories and problems of ethics, such as utilitarianism, Kant's categorical imperative, ethical relativism, egoism, and classical conceptions of the good and virtue. Against this background students engage in discussions of contemporary moral issues.
3 credits

PHI 105-G Politics and Society (II)
An historical introduction to philosophy through an analysis of political theories, theories of action, and styles of political life. Main themes include the relation of the individual to the state, the scope of social responsibility, and the nature of human freedom.
3 credits

PHI 108-B Logical and Critical Reasoning (II)
The principal aim of this course is to help a student acquire the skills of thinking, reading, and writing critically. The student develops a sensitivity to language and argumentation that is applicable to a wide range of situations and subject matters.
3 credits

PHI 109-B Philosophy and Literature in Social Context (III)
The role of literature and philosophy in understanding and critically assessing personal experience and social life. The links among literary texts, philosophical issues, and political and social commitments are explored. Topics include the relations between language and experience, the role of philosophical thinking through literary texts, and the significance of literary expression in different cultural and historical situations. This course is offered as both HUM 109 and PHI 109.
3 credits

PHI 110-B Arts and Ideas (III)
An introduction to the historical and comparative study of the various arts in relation to the philosophic ideas that prevailed at the same time. At least four significantly different historical periods of intense creative activity—such as ancient Greece, the Renaissance, the 18th or 19th century in the West, ancient China, Tang or Sung dynasty China, Heian or Muromachi period Japan, and the contemporary age—are studied in terms of the interconnections between philosophical theorizing and artistic practice.
3 credits

PHI 111-B Introduction to Eastern Philosophy (I)
An introduction to different systems of Eastern philosophy and the main classical texts drawn from Hinduism, Buddhism, Taoism, Confucianism, and Neo-Confucianism. Efforts are made to recover the different modes of knowledge, language, identification, and liberation dealt with in these texts.
3 credits

PHI 200-G Introduction to Ancient Philosophy (I)
Readings and discussion of the major Greek and Roman thinkers, e.g., the pre-Socratics, Plato, Aristotle, the Stoics, and Plotinus. Advisory Prerequisite: U2 standing or one course in philosophy.
2 credits

PHI 206-G Introduction to Modern Philosophy (17th and 18th century) (I)
Readings and discussion of the major thinkers of the 17th and 18th centuries, e.g., Descartes, Leibniz, Spinoza, Hobbes, Locke, Berkeley, Hume, and Kant. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 208-G Introduction to 19th-Century Philosophy (I)
Readings and discussion of the major thinkers of 19th-century Europe, e.g., Kant, Hegel, Comte, Marx, Mill, Schopenhauer, and Nietzsche. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 220-C Introduction to Symbolic Logic (II)
This first course in symbolic logic emphasizes the development of systematic techniques for assessing the validity of arguments: truth tables and truth values analysis, Venn diagrams, elementary quantification theory, and deduction in both the propositional calculus and quantification theory. Prerequisite: Satisfaction of entry skill in mathematics requirement. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 230-H The Nature and Practice of Science (III)
An examination of the scientific experience. A particular scientific discovery, such as nuclear fission and its exploitation, is followed from its origins to explore the influences of historical, social, technological, and philosophical forces on science. The nature of discovery; the interplay between experiment and theory; technology and the environment; paradigm shifts; science and gender; the difference between fraud and error; and self-discovery are considered. Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 247-G Existentialism (I)
Readings in existential philosophy and literature with special emphasis on such themes as alienation, anxiety, nihilism, absurdity, the self, value, death, and immediacy. Existentialist categories are used to interpret contemporary lifestyles and culture. Prerequisite: U2 standing; one course in philosophy.
3 credits

PHI 249-G Marxism (I)
A study of Marxism as a philosophical system. Topics include the development of Marxism out of German idealism: the contributions of Marxism to political and social philosophy; and the influence of Marx on subsequent thinkers, e.g., Althusser, Habermas, and Foucault. Prerequisite: U2 standing or one course in philosophy. Advisory Prerequisite: PHI 105
3 credits

PHI 264-D Philosophy and the Arts (III)
A study of the arts focusing on the nature of the creative process, methods of interpretation, essential differences among the various arts, and the relation of performance to text. Advisory Prerequisite: U2 standing or one PHI, ARH, MUS, or THR course.
3 credits

PHI 277-G Political Philosophy (II)
An inquiry into the function of philosophic principles in political thought and action, with readings drawn from such authors as Plato, Aristotle, Machiavelli, Spinoza, Hobbes, Locke, Kant, Hegel, Mill, and Dewey. Prerequisite: U2 standing or one course in philosophy. Advisory Prerequisite: PHI 105
3 credits

PHI 284-G Introduction to Feminist Theory
The social construction of gender and how this construction affects philosophical thought and practice. The course provides an introductory survey of current feminist issues and analyses. It also examines the meaning of feminism for philosophy by examining the effect of introducing a political analysis of gender into a discipline that is supposedly universal and neutral. This course is offered as both PHI 284 and WST 284. Advisory Prerequisite: U2 standing or one PHI or WST course.
3 credits

PHI 285-G The Uses of Philosophy (III)
Introductory study of the bearing of philosophic considerations on the special arts and sciences. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 300-I Ancient Philosophy (I)
Advanced studies in selected Greek thinkers from the pre-Socratics to the classical Athenian philosophers and the Hellenistic schools. Prerequisites: Two courses in philosophy. Advisory Prerequisite: PHI 200 or 206 or 208
3 credits

PHI 304-I Medieval Philosophy (I)
Study of the writings of major thinkers from Augustine to William of Ockham. Prerequisites: Two courses in philosophy. Advisory Prerequisite: PHI 200
3 credits

PHI 306-I Modern Philosophy (I)
Advanced studies in selected thinkers such as Descartes, Vico, Spinoza, Locke, Berkeley, Hume, and Kant. Prerequisite: Two courses in philosophy. Advisory Prerequisite: One of the following: PHI 200, 206, 208, 247, or 300
3 credits
COURSE DESCRIPTIONS

PHI 308-I 19th-Century Philosophy (I)
Study of major figures in 19th-century thought, such as Hegel, Schopenhauer, Marx, Mill, Nietzsche, Kierkegaard, and Comte.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: One of the following: PHI 200, 206, 208, 247, 300, or 306
3 credits

PHI 309-I 20th-Century Philosophy (I)
A study of selected major philosophical problems and movements during the 20th century, e.g., logical positivism, the problem of induction, incommensurability meta-ethics, the linguistic turn, deconstruction, foundationalism, and anti-foundationalism.
Pre- or Corequisites: Two philosophy courses
Advisory Prerequisite: One of the following: PHI 206, 208, 220, 230, 306, 308, 310
3 credits

PHI 310-K American Philosophy (I)
A study of selected major figures in the history of American philosophy, e.g., Jefferson, Emerson, Edwards, James, Peirce, Dewey, Whitehead, and Santayana. American history is viewed through the lens of American philosophies such as pragmatism and transcendentalism.
Prerequisites: Two courses in philosophy
Advisory Prerequisites: One of the following: PHI 200, 206, 208, 247, 300, 306, or 308
3 credits

PHI 312-I Topics in Contemporary European Thought (I)
Topics in major developments in contemporary European philosophy from 1900 to the present. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: One of the following: PHI 200, 206, 208, 247, 300, 306, or 308
3 credits

PHI 315 Majors' Introductory Seminar A
Seminar using various philosophical texts as a basis for intense study, discussion, and extensive writing. Designed for new or intending philosophy majors, the course provides training in the skills of writing and reading required for success in the major. Authors selected for study and discussion may be taken from any historical period; texts provide experience in reading a variety of philosophical styles and outlooks.
Prerequisites: Two courses in philosophy; philosophy major
3 credits

PHI 316 Majors' Introductory Seminar B
Introduction to the major questions in philosophy today and to members of the philosophy faculty. One faculty member coordinates the course, and each week, a different faculty member assigns a reading, gives a presentation, and/or leads a discussion on a topic or area of current philosophical interest. Students respond in discussion and writing. Designed for new or intending philosophy majors, the course is intended to solidify reading and writing skills required for the major, as well as provide some acquaintance with what are currently the main topics or approaches to philosophy.
Prerequisites: Two courses in philosophy; philosophy major
3 credits

PHI 320-G Metaphysics (II)
An inquiry into the first principles of science, art, and action as these are treated by representative classical and modern authors.
Prerequisites: Two courses in philosophy
3 credits

PHI 323-G Philosophy of Perception (II)
An inquiry into the philosophical and methodological problems pertaining to sensing, perceiving, and observing the world. Major theories of classical and modern authors are considered.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: PHI 200
3 credits

PHI 325-G Contemporary Philosophies of Language (II)
A discussion of current topics in the philosophy of language, semantics, and literary theory.
Prerequisites: Two courses in philosophy
3 credits

PHI 330 Advanced Symbolic Logic (II)
A study of such topics as a natural deduction system of quantification theory including consistency and completeness proofs; axiomatic formal systems and associated concepts of consistency, completeness, and decidability; elementary modal logic; and introductory set theory.
Prerequisite: PHI 220
3 credits

PHI 332-G Theories of Knowledge (II)
A study of a variety of conceptions of the structure and content of knowledge as found in classical and contemporary epistemologies. Fundamental methods and principles of philosophical inquiry are applied to questions about the ways in which concepts and theories are generated in the physical and social sciences and to questions about knowledge of what is of value, knowledge in philosophy, and knowledge in the arts.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: PHI 220
3 credits

PHI 335-G Philosophy of Time (II)
An inquiry into the nature of time as it is treated by philosophers of classical and modern times.
Prerequisites: One course in philosophy or physics
3 credits

PHI 336-G Philosophy of Religion (II)
A philosophical analysis of basic concepts, principles, and problems of religious thought. Topics may include faith and knowledge, religion and morality, divine attributes, arguments for and against the existence of God, and the problem of evil.
Prerequisites: Two courses in philosophy or one course in religious studies
3 credits

PHI 340-J Philosophical Traditions of East Asia (I)
A study of influences and confluences among major currents of thought in East Asia, surveying the major debates that shaped the great intellectual traditions of China and their transformation as they were assimilated in Korea and Japan. Particular attention is given to the rise of Neo-Confucian orthodoxy in East Asia and the philosophical and political reasons its basic concepts were challenged during the Ming, late Choson, and Tokugawa periods.
Prerequisites: PHI 111 or RLS 240 or 246 or 260; one other course in philosophy
3 credits

PHI 342-J History of Chinese Philosophy (I)
Readings in translation of the major texts of Chinese philosophy, including classical Confucianism and Taoism; Han dynasty developments of Confucianism and Taoism; the skepticism of Wang Ch'ung; the schools of Chinese Buddhism; Sung and Ming dynasty Neo-Confucianism.
Prerequisites: PHI 111 or RLS 240 or 246 or 260; one other course in philosophy
3 credits

PHI 344-J Japanese Thought and Philosophy (I)
An examination of major texts in Japan's religious, poetic-artistic, and philosophical traditions down to modern times. Topics may include Tendai, Shingon, Pure Land, and Zen Buddhism; the cultural forms of Shinto religiosity; aesthetic concepts such as miyabi; Tokugawa Neo-Confucianism and its impact on modern Japan; philosophical aspects of the modern Japanese novel; the Kyoto school of Buddhism.
Prerequisites: PHI 111 or RLS 240 or 246 or 260; one other course in philosophy
3 credits

PHI 347-G Hermeneutics and Deconstruction (II)
An exploration of the major assumptions, commitments, methods, and strategies of hermeneutics and deconstruction. The course examines how these two recent schools of thought have developed out of the contemporary philosophical scene and how they have had such a significant impact on literary theory, art criticism, text theory, social theory, and the history of philosophy. Readings include selections from the writings of Heidegger, Gadamer, Jauss, Ricoeur, Derrida, Kristeva, Lyotard, Kolman, Irigaray, and others.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: PHI 247, 264, 306, 308, or 312
3 credits

PHI 353-G Philosophy of Mind (II)
Analysis of the major problems in the philosophy of mind, e.g., the mind-body problem, the problem of identity through time, the relation between thoughts and sensations, the problem of the knowledge of other minds.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: PHI 247
3 credits

PHI 360-G Philosophy of Education (III)
An inquiry into the function of philosophic principles in educational theories and institutions. The inquiry centers on the purposes of knowledge and education, the relations among the sciences and their organization into curricula, and the ways knowledge is acquired and transmitted.
Prerequisites: Two courses in philosophy, or one course in philosophy and one course related to education
3 credits

PHI 363-G Philosophy of the Social Sciences (III)
A study of the philosophical foundations of the social sciences, applying principles and methods of philosophical analysis to questions concerning the structures of social reality, the methodological and epistemological status of the social sciences, and the criteria for evidence and theory formation in the social sciences.
Prerequisites: One course in philosophy; completion of D.E.C. category F
Advisory Prerequisite: PHI 105, 206, 249, or 277
3 credits

PHI 364-H Philosophy of Technology (III)
A systematic study of the interrelations of human beings and their social institutions with the surrounding world of nature and of technological artifacts. The impact of technological culture on human beliefs and perceptions of the world is explored. This course is interdisciplinary in scope, with readings from philosophy, anthropology, literature, history, environmental studies, and other areas where technology is of concern.
Prerequisites: One course in philosophy; completion of D.E.C. category E
2 credits

As printed January 2005

http://www.stonybrook.edu/ugbulletin
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PHI 365-H Philosophy and Computers (III)
An investigation of topics at the interface between phi-
losophy and computation drawing on classical and con-
temporary sources. Philosophical questions about com-
puters, computation, information, logic, language, and
mind, and the prospects for computer modeling as a
tool in philosophical investigation.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: PHI 220 or one course in com-
puter science
3 credits

PHI 366-G Philosophy and the Environment (III)
Philosophical questions raised by human relations
with the natural world, ranging from basic concepts
such as nature, ecology, the earth, and wilderness, to
the ethical, economic, political, and religious dimen-
sions of current environmental problems, includ-
ing the question of whether there are values inherent
in nature itself beyond those determined by human
interests alone.
Prerequisites: Two courses in philosophy, or one
course in philosophy and completion of D.E.C. cate-
gory E
3 credits

PHI 367-G Philosophy of War and Peace (III)
An investigation into the philosophical issues raised
by war and peace. Topics may include theories of just
war, the relationship between authority, state power
and war, and the relationship between reason and the
violent nature of history. The question of the origins,
permanence, and need of war, as well as what is
peace and how it may be attained will be considered
through the study of philosophers such as Plato,
Aristotle, Kant, Hegel, Marx, William James, Hannah
Arendt, and contemporary thinkers.
Prerequisites: Two courses in philosophy
Advisory Prerequisites: PHI 104 and 105
3 credits

PHI 368-H Philosophy of Science (III)
A course in the philosophy of science using both his-
torical and contemporary materials. Methodological
issues discussed include scientific explanation and
prediction, the structure of theories, the nature of sci-
entific revolutions, and the role of laws in science.
Philosophic problems in understanding specific sci-
ences and their relation to each other are also consid-
ered, as are their relations to other areas of philo-
sophic concern, such as metaphysics.
Prerequisites: One course in philosophy; completion of
D.E.C. category E
Advisory Prerequisites: PHI 206 and 230
3 credits

PHI 369 Philosophy of Mathematics (III)
An investigation of philosophical issues that arise in
mathematics. Topics include foundational issues within
mathematics (logicism, formalism, intuitionism, and
platonism, as well as recent theories of mathematical
naturalism); the nature and existence of mathematical
objects; the nature of mathematical truth; the concept
of set; reinterpretations of the history of mathematics.
Prerequisites: One course in philosophy; completion of
D.E.C. category E
Advisory Prerequisites: PHI 206 and 220
3 credits

PHI 370-G Philosophical Psychology (III)
An examination of philosophical issues and some psy-
chological theories concerning the nature of the per-
sion and the sources of the self. The course includes
such topics as the dimensions of the person, the
nature of conscious life, the scope of human cognition,
and gender identity.
Prerequisites: One course in philosophy
Advisory Prerequisite: PHI 100 or 103 or 104
3 credits

PHI 372-G Ethical Inquiry (II)
An intensive study of the methodological principles
governing the formation of ethical theories and ethical
judgments through an investigation of selected ethical
problems.
Prerequisites: PHI 104 and one other PHI course
Advisory Prerequisite: One of the following: PHI 108,
200, 206, 208, 300, 304, 306, 308, 309, 366
3 credits

PHI 373-G, 374-G Philosophy in Relation to Other Disciplines (III)
The study of philosophy as it affects and is affected by
other disciplines such as anthropology, science, soci-
ology, the history of ideas, theology, and psychology.
Semester Supplements to this Bulletin contain descrip-
tion when course is offered. May be repeated as the
topic changes.
Prerequisites: Two courses in philosophy
3 credits per course

PHI 375-G Philosophy of Law (III)
An examination of the concept of law and the nature of
legal reasoning. The course explores the relationship
of law to other central philosophical and social ideas
such as freedom, rights, morality, authority, welfare,
property, justice, and constitutionalism.
Prerequisites: Two courses in philosophy
3 credits

PHI 376-G Philosophy and Medicine (III)
An investigation of the role that philosophical con-
cepts play in medical thinking and practice. The
course focuses on the philosophical foundations of
concepts of health and disease; concepts of right,
responsibility, and justice relevant to medical practice;
promise-keeping and truth-telling in the doctor-patient
relationship; and specific moral problems that arise in
medical practice.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: HIS 257 or 258 or SOC/HMC
200 or HMC 331
3 credits

PHI 377 Contemporary Political Philosophy (II)
A critical examination of selected issues in contempo-
rary political philosophy, for example, the nature and
justification of basic rights, the legitimization of politi-
cal authority, and the various relations between ideals
of social justice and democratic rule. Readings repre-
sent contemporary views such as libertarianism, lib-
eralism, socialism, communalism, and feminism,
and include selections by authors such as Rawls,
Nozick, Dworkin, Walzer, Habermas, and Pateman.
This course is offered as both PHI 377 and POL 377.
Prerequisites: Two courses in philosophy
Advisory Prerequisite: PHI 105 or 277 or 375; one
upper-division political science course
3 credits

PHI 378-K Philosophical Topics in Asian American History (III)
Analysis and interpretation of Asian and American lit-
erature, film, law, and history to understand the expe-
riences of Asians in the Americas and to reconceptu-
alize the concepts of power, race, class, gender, and
ethnicity from the era of the early immigration period
through the present day, placed within a broad histor-
ic context, including consideration of social, political,
economic, and cultural history and institutions.
Semester supplements to this Bulletin contain specific
description when course is offered. May be repeated
for credit as the topic changes.
Prerequisites: One PHI course or one WST course
3 credits

PHI 379-K Philosophy of Race (III)
Examination of our assumptions about race and the
impact of those assumptions on issues concerning
gender, class, and sexuality throughout American his-
tory. Readings include critical race theory, feminist
theory, and critical legal theory. Students examine racial
issues from a philosophical perspective and con-
sider the ways in which representations of race may
reinforce patterns of power and privilege. This course
is offered as both AFH 379 and PHI 379.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: One course in philosophy
3 credits

PHI 380-G Literature and Philosophy (III)
An intensive study of the methods and principles of
the philosophical analysis of literature and the rela-
tions between literature and philosophy. Primary texts
are selected to demonstrate the precise nature of the
relationship. Semester Supplements to this Bulletin
contain description when course is offered. May be
repeated as the topic changes.
Prerequisites: One philosophy course; one literature
course
Advisory Prerequisite: PHI 109 or 110
3 credits

PHI 381-G Aesthetics (II)
An intensive study of methods and principles specific
to the philosophical analysis of art through selected
classical texts in aesthetics (e.g., Plato’s Phaedrus,
Aristotle’s Poetics, Kant’s Critique of Judgment, and
Nietzsche’s The Birth of Tragic Drama). Excursions focus
on such problems as the ontology of the work of art,
it’s epistemological significance, the relation between
fact and fiction, criteria of interpretation, or the politi-
cal import of art. Readings in the classical texts may be
supplemented by selections from contemporary
authors.
Prerequisites: Two courses in philosophy; completion of
D.E.C. category D course
Advisory Prerequisites: PHI 109 or 110; PHI 264
3 credits

PHI 383-G Philosophical Issues of Race and Gender (III)
Issues of race and gender and how the notion that
racism and sexism are analogous forms of oppression
aids and detracts from consideration of these issues.
Examination of the dynamics of race and gender in
various contexts such as activism, art, law, literature,
the media, medicine, and philosophy. This course is
offered as both PHI 383 and WST 383.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: One PHI or WST course
3 credits

PHI 384-G Advanced Topics in Feminist Philosophy (III)
An intensive philosophical study of selected topics of
feminist concern. Topics are selected to further the
understanding of what effect feminism has upon tradi-
tional areas of philosophy as well as providing a
detailed understanding of particular feminist theories.
Semester supplements to this Bulletin contain specific
description when course is offered. May be repeated
for credit as the topic changes. This course is offered
as PHI 384 and WST 384.
Prerequisites: One PHI course; one WST course
Advisory Prerequisites: PHI/WST 284; one other PHI
or WST course
3 credits

PHI 390 Topics in Philosophy
Semester supplements to this Bulletin contain specific
description when course is offered. May be repeated
for credit as the topic changes.
Prerequisites: Two courses in philosophy
3 credits

PHI 391-G Topics in Philosophy
Semester supplements to this Bulletin contain specific
description when course is offered. May be repeated
for credit as the topic changes.
Prerequisites: Two courses in philosophy
3 credits
PHI 400-G, 401-G Individual Systems of the Great Philosophers (I)
A detailed study of the works of a single great philosopher. Semester Supplements to this Bulletin contain specific description when course is offered. May be repeated as the topic changes.
Prerequisite: One of the following: PHI 300, 304, 306, 308, 309, 310, or 312
3 credits per course

PHI 402-G Analysis of Philosophic Texts (I)
Detailed analysis of a major philosophic text. Semester Supplements to this Bulletin contain specific description when course is offered. May be repeated as the topic changes.
Prerequisite: One of the following: PHI 300, 304, 306, 308, 309, 310, or 312
3 credits

PHI 420 Advanced Topics in Philosophy (I, II, III)
An advanced course treating a specialized issue or topic in philosophy or in philosophy and another discipline. The content of the course is announced before the start of the term. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisite: U4 standing or five courses in philosophy
3 credits

PHI 421 Research Tracks in Philosophy (I, II, III)
A survey of recent literature necessary to prepare a team of students in a Research Track for two additional semesters of collaborative research.
Prerequisite: Consent of Research Track faculty
3 credits

PHI 435 Senior Seminar
An intensive study of an issue, topic, figure, or historical period in philosophy intended to provide both a culminating experience and final integration for senior philosophy majors. This seminar emphasizes careful reading, rigorous discussion, and extensive writing at an advanced level. The content of the seminar is announced before the start of the term, and students are consulted on the content as it proceeds.
Prerequisite: U4 standing; six courses in philosophy; satisfaction of upper-division writing requirement for the philosophy major
3 credits

PHI 475, 476 Undergraduate Teaching Practica I, II
Work with a faculty member as an assistant in one of the faculty member's regularly scheduled courses. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. In PHI 476, students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.
Prerequisite: PHI 475; prior preparation in subject field; permission of instructor and director of undergraduate studies
3 credits per course, S/U grading

PHI 487 Readings and Research in Philosophy (II)
Advanced-level inquiry with individualized instruction in one particular philosophical style of reasoning. Consult undergraduate advisor for specific details.
May be repeated.
Prerequisite: U4 standing in philosophy major; permission of department
0-6 credits

PHI 489 Readings and Research in the History of Philosophy (I)
Advanced-level inquiry with individualized instruction in the great philosophies of the past. Consult undergraduate advisor for specific details. May be repeated.
Prerequisites: U4 standing in philosophy major; permission of department
0-6 credits

PHI 490 Readings and Research in Philosophical Investigations of Other Disciplines (III)
Advanced-level inquiry with individualized instruction in the application of philosophical tools to one of the special disciplines. Consult undergraduate advisor for specific details. May be repeated.
Prerequisites: U4 standing in philosophy major; permission of department
0-6 credits

PHY 104 Opportunities in Physics
An introduction to current activities of physicists on Long Island. Stony Brook faculty, alumni and other physicists discuss their current projects and their careers, and relate their activities both to basic undergraduate physics and to areas of ongoing research, such as the unification of the fundamental forces, the search for the quark-gluon plasma, and coherent states of atoms trapped at low temperature. Tours of university, industry, and government lab facilities are included, as well as interaction with physicists in non-traditional areas such as medicine, finance, and the media.
Prerequisite: PHY 125 or 131/133 or 141
Corequisite: PHY 126 or 127 or 132/134 or 142
1 credit

PHY 112-E Light, Color, and Vision
An introduction to the modern understanding of light, color, and vision, primarily for non-science majors and especially beneficial to students majoring in visual arts or theatre. Topics include the nature of light; the human eye and vision; illusions, color perception, and color theory; optical instruments; the camera and photography; optical phenomena in the atmosphere (mirages, rainbows, halos); and light in modern physics (relativity, lasers). Not for major credit.
Prerequisite: Satisfaction of entry skill in mathematics requirement (Skill I) or satisfactory completion of D.E.C. C
3 credits

PHY 113-E Physics of Sports
First part of an introduction to physics from the perspective of sports, especially designed for non-science majors. Basic concepts in classical mechanics and fluid dynamics are used to analyze particular actions in football, baseball, soccer, track and field, and other sports. Students learn, for example, about the knuckle ball in baseball and why it is so hard to hit, and why quarterbacks throw a football in a spiral. The concepts of heat, energy, and calories are also discussed. The laboratory component, PHY 115, may be taken concurrently with or after PHY 113.
Prerequisite: Satisfaction of entry skill in mathematics requirement (Skill I) or satisfactory completion of D.E.C. C
3 credits

PHY 114-E Electromagnetism, Waves and Radiation for Sports Science
Second part of the Physics of Sports sequence. The focus is on electricity, magnetism, optics, acoustics, radiation, and medical imaging. The laboratory component, PHY 116, may be taken concurrently with or after PHY 114.
Prerequisite: PHY 113
3 credits

PHY 115 Physics of Sports Laboratory
Laboratory component of PHY 113. Experiments are designed to help students better understand the physics aspects of sports. Students work in groups and conduct experiments indoors and outdoors. Knowledge of first-year college-level mathematics is recommended but most necessary information is taught in class as needed. May be taken concurrently with or after PHY 113.
Pre- or Corequisite: PHY 113
1 credit

PHY 116 Electromagnetism, Wave, and Radiation for Sports Science Laboratory
Laboratory component of PHY 114. Experiments are designed to help students better understand the physics aspects of sports. Knowledge of first-year college-level mathematics is recommended but most necessary information is taught in class as needed. May be taken concurrently with or after PHY 114.
Pre- or Corequisites: PHY 113 and 115
1 credit

PHY 119-E Physics for Environmental Studies
The principles of physics as they apply to environmental issues. A review of mathematics is followed by a discussion of Newton's laws, conservation principles, topics in fluids and waves, heat, sound, optics, and radioactivity. Three lectures and one laboratory session per week. This course is offered as both ENS 119 and PHY 119.
Prerequisites: MAT 125; CHE 131
1 credit

PHY 121-E Physics for the Life Sciences I
First part of a calculus-based introduction to physics with applications to biology, primarily for students majoring in biological sciences or pre-clinical programs. Topics include mechanics, fluid mechanics, and thermodynamics. Three lecture hours and one recitation hour per week. Laboratory component, PHY 123, must be taken concurrently; a common grade for both courses will be assigned. PHY 121 may not be taken for credit in addition to PHY 125, 131, or 141.
Prerequisites: MAT 125 or 131 or 141 or AMS 151; CHE 132 or 142
Corequisite: PHY 123
3 credits

PHY 122-E Physics for the Life Sciences II
Second part of a calculus-based introduction to physics with applications to biology, primarily for students majoring in biological sciences or pre-clinical programs. Topics include electromagnetism, optics, acoustics, and radiation phenomena. Three lecture hours and one recitation hour per week. Laboratory component, PHY 124, must be taken concurrently; a common grade for both courses will be assigned. PHY 122 may not be taken for credit in addition to PHY 126, 127, 132, or 142.
Prerequisite: PHY 121/123
Corequisite: PHY 124
3 credits

PHY 123 Physics for Life Sciences Laboratory
Must be taken concurrently with Lecture component, PHY 121; a common grade for both courses will be assigned. Two hours of laboratory per week.
Corequisite: PHY 121
1 credit

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As printed January 2005