
Natural Sciences (NSCI)

College of Natural Sciences
Faculty of Science

NSCI 1000 [0.5 credit] (formerly 66.100)

Seminar in Science

This cross-disciplinary course presents a survey of current issues in science. The course provides new science students with an orientation to the study of science at the university level. The course is structured around seminars, oral and written presentations.

Restricted to students in the first year of B.Sc. programs or B.A. Biology programs.

Lectures and tutorials three hours a week.

Philosophy (PHIL)

Department of Philosophy
Faculty of Arts and Social Sciences

PHIL 1000 [0.5 credit]

Introductory Philosophy: Fields, Figures and Problems

What is metaphysics? Who was Socrates? What is Freedom? This basic introduction sketches many branches of philosophy and the important problems associated with each. It introduces great philosophers, present and past, and traces enduring philosophical themes. Precludes additional credit for PHIL 1100 and FYSM 1208. This course is not suitable for students with previous formal study of philosophy.

PHIL 1001 [0.5 credit] (formerly 32.101*)

Ethics and Philosophy of Religion

An examination of arguments for and against the existence of God; the nature of religious language and the meaning and justification of moral judgments.

Lectures three hours a week.

PHIL 1100 [1.0 credit] (formerly 32.110)

Looking at Philosophy

Introduction to philosophy: the nature of logical thinking; the existence of God; the objectivity of values; the meaning of life; free will; determinism and responsibility; the relation between the mind and body; immortality and the possibility of knowledge.

This course is not intended for Majors (B.A. or B.A. Honours) in Philosophy.

Precludes additional credit for FYSM 1208.

Lectures three hours a week.

PHIL 1301 [0.5 credit] (formerly 32.131*)

Mind, World, and Knowledge

An introduction to philosophical issues concerning mind, language, knowledge and the world. Topics may include: the nature of being, the mental, the external, consciousness, perception, experience, meaning, truth, the nature of knowledge, scientific understanding, how language and thought represent the world.

Precludes additional credit for PHIL 1006 or PHIL 1501.

PHIL 1500 [1.0 credit] (formerly 32.150)

Contemporary Moral, Social and Religious Issues

Moral theories, atheism or theism, feminism, and free will. Moral arguments concerning abortion, affirmative action, racism, human rights, children's rights, world hunger, capital punishment, euthanasia, censorship, pornography, legal paternalism, animal rights and environmental protection.

Precludes additional credit for FYSM 1209.

Lectures three hours a week.

PHIL 1600 [1.0 credit] (formerly 32.160)

History of Philosophy

Major figures and developments in philosophy from the early Greeks to the present. Descriptive and comparative approach, providing an understanding of the place of philosophers in the history of thought. Appreciation of critical reasoning is included for comprehending philosophical developments.

Precludes additional credit for FYSM 1300.

Lectures three hours a week.

PHIL 1804 [0.5 credit] (formerly 32.184*)

Introduction to Environmental Ethics

Major questions in environmental ethics: How should human beings view their relationship to the rest of nature? Is responsible stewardship of the environment compatible with current technology? Must future generations be protected? Do animals, other life forms, endangered species, ecosystems and/or the biosphere have value or rights?

Lectures three hours a week.

PHIL 2001 [0.5 credit] (formerly 32.201*)

Introduction to Symbolic Logic

An introduction to the techniques and philosophical implications of formal logic with emphasis on the following

issues: translation of expressions into symbolic form, testing for logical correctness, the formulation and application of rules of inference, and the relation between logic and language.

Open to first-year students.
Lectures three hours a week.

PHIL 2003 [0.5 credit] (formerly 32.203*)

Informal Reasoning

Assessment of reasoning and the development of cogent patterns of thinking. Reference to formal logic is minimal. Practice in criticizing examples of reasoning and in formulating one's own reasons correctly and clearly.

Open to first-year students.
Precludes additional credit for PHIL 1200.
Lectures three hours a week.

PHIL 2004 [0.5 credit]

Asian Philosophy

Asian approaches to philosophical problems such as the nature of reality, mystical experience, human nature, the good life, the ideal society. Critical examination of major philosophical schools, thinkers and texts from Hindu, Buddhist, or Chinese philosophy. Exploration of similarities and differences with Western approaches.

Prerequisite: at least 0.5 credit in Philosophy or second-year standing.
Lectures three hours a week.

PHIL 2006 [0.5 credit] (formerly 32.206*)

Greek Philosophy: Plato and Aristotle

A study, both historical and critical, of some central issues in the philosophy of Plato and of Aristotle. (This course is also listed as CLCV 2006.)

Precludes additional credit for PHIL 2005.
Prerequisite: at least 0.5 credit in Philosophy or second-year standing.
Lectures three hours a week.

PHIL 2007 [0.5 credit] (formerly 32.207*)

Hellenistic and Early Medieval Philosophy

The evolution of western philosophy from the fourth through the twelfth century: theories of human nature, knowledge and reality are traced from the Hellenistic philosophers through the early medieval syntheses of reason with Christianity. Several thinkers (e.g. Plotinus, Augustine and Anselm) are studied in depth. (Also listed as CLCV 2007.)

Precludes additional credit for PHIL 2205.
Prerequisite: PHIL 2006 or permission of the Department.
Lectures three hours a week.

PHIL 2008 [0.5 credit] (formerly 32.208*)

Philosophy in the Late Middle Ages, Renaissance and Reformation

The evolution of western philosophy from the scholasticism of the high Middle Ages to the humanism of the Renaissance and the skepticism and fideism of the Reformation and Counter-Reformation period. Several thinkers such as Aquinas, Montaigne and Francis Bacon are studied in depth.

Precludes additional credit for PHIL 2205.
Prerequisite: PHIL 2006 or permission of the Department.
Lectures three hours a week.

PHIL 2009 [0.5 credit] (formerly 32.209*)

Early Modern Philosophy: the Rationalists

European philosophy of the seventeenth and early eighteenth century. Representative works of writers such as Descartes, Spinoza and Leibniz.

Precludes additional credit for PHIL 2105.
Prerequisite: PHIL 2006, PHIL 2007 or PHIL 2008; or permission of the Department.
Lectures three hours a week.

PHIL 2101 [0.5 credit] (formerly 32.211*)

History of Ethics

An introduction to ethical theories through a study of some of the major figures in moral philosophy, such as Aristotle, Hume, Kant and Mill.

Prerequisite: at least 0.5 credit in Philosophy or second-year standing.
Lectures three hours a week.

PHIL 2102 [0.5 credit] (formerly 32.212*)

Contemporary Ethical Theory

Critical study of the main types of modern ethical theories, their views on the nature of morality and the justification of moral claims. Topics utilitarianism, libertarianism, communitarianism, egoism, neo-Kantianism, virtue ethics, social contract ethics, feminist ethics, and moral rights.

Prerequisite: PHIL 2101 or permission of the Department.
Lectures three hours a week.

PHIL 2103 [0.5 credit] (formerly 32.213*)

Philosophy of Human Rights

Philosophical introduction to human rights sources, concepts, justifications, consequences, and challenges to them. Evolution of selected human rights as a) demands made in political struggles; b) declarations supported by moral or political principles and arguments; c) codes ratified and implemented by governments and international organizations.

Prerequisite: a course in Philosophy or second-year standing.
Lectures three hours a week.

PHIL 2104 [0.5 credit] (formerly 32.214*)

Computer Ethics

Philosophical foundations of computer ethics. The ethical impact of computerization on intellectual property rights, the right to privacy, and freedom of expression; ethical issues of risk management and reliability; professional codes. Ethical problems posed by specific technologies and research areas may also be included. Primarily intended for Computer Science students.

Precludes additional credit for PHIL 2106.
Prerequisite: a course in Philosophy or second-year standing.
Lectures three hours a week.

PHIL 2106 [0.5 credit] (formerly 32.216*)

Information Ethics

Ethical aspects of the influence of information technology on intellectual property rights, privacy, free speech, work and society. Also included are an introduction to philosophical ethics and discussions of moral responsibilities of IT professionals, codes of professional ethics, hacker ethics, viruses and software piracy.

Precludes additional credit for PHIL 2104.
Prerequisite: a course in Philosophy or second-year standing.
Lectures three hours a week.

PHIL 2201 [0.5 credit] (formerly 32.221*)

Introduction to Marxist Philosophy

The evolution of Marx's social and political views in the setting of 18th- and 19th- century anarchism, liberalism and conservatism. Themes of humanism, freedom, rights, the state, democracy, alienation, and inequality, primarily as they develop into the theory of historical materialism.

Precludes additional credit for PHIL 2200.
Prerequisite: at least 0.5 credit in Philosophy or permission of the Department.
Lectures three hours a week.

PHIL 2202 [0.5 credit] (formerly 32.222*)

Topics in Marxist Philosophy

The dialectical materialism of Marx, Engels, and Lenin is compared with traditional materialist, idealist, and mechanist philosophy. Marxist views on issues such as equality, ethical objectivity, human well-being, matter and mind, the existence of God, knowledge versus skepticism, freedom of the will, and justice.

Precludes additional credit for PHIL 2200.
Prerequisite: PHIL 2201 or at least 0.5 credit in the history of philosophy at the 2000-level or above.
Lectures three hours a week.

PHIL 2203 [0.5 credit] (formerly 32.223*)
Existentialism and Phenomenology
 A study of the views of such writers as Kierkegaard, Husserl, Merleau-Ponty, Heidegger and Sartre.
 Precludes additional credit for PHIL 2700.
 Prerequisite: at least 0.5 credit in the history of philosophy at the 2000-level or above or permission of the Department.
 Lectures three hours a week.

PHIL 2300 [0.5 credit] (formerly 32.230*)
Believing and Knowing
 Discussion of fundamental issues concerning the relation between evidence, rationality, and knowledge. Topics may include: skepticism, the nature of belief, the structure of justification, the relative contributions of reason and sense experience to knowledge, innate knowledge, the problem of induction, and the knowledge of other minds.
 Prerequisite: A course in philosophy or second year standing.

PHIL 2301 [0.5 credit] (formerly 32.231*)
Introduction to the Philosophy of Science
 Philosophical issues arising out of the attempt to understand the world scientifically. Topics may include: scientific methodology, revolution, observation, explanation, causation, induction, reduction, the difference between natural and social scientific understanding, realism, instrumentalism, constructivism.
 Prerequisite: a course in philosophy or second year standing.

PHIL 2302 [0.5 credit]
Metaphysics
 Introduction to philosophical issues concerning the fundamental nature of being. Topics may include: time and temporality, space, substance, universals/particulars, identity, causation, freedom/determinism, the nature of norms.
 Prerequisite: a course in philosophy or second year standing.

PHIL 2306 [0.5 credit] (formerly 32.236*)
Philosophy and Feminism
 A study of philosophical issues arising from feminism. The course includes discussions of the relations between feminism, reason and ideological commitment, as well as critical evaluation of contemporary views on selected topics (e.g. abortion, pornography and censorship, affirmative action, and beauty).
 Prerequisite: at least 0.5 credit in Philosophy or second-year standing.
 Lectures two and one half hours a week.

PHIL 2307 [0.5 credit] (formerly 32.237*)
Topics in Feminist Philosophy
 An examination of issues such as science and gender, feminist epistemology, feminism and post modernism, and feminist ethics. In connection with these issues, practical applications are given consideration.
 Prerequisite: PHIL 2306 or permission of the Department.
 Lectures two and one half hours a week.

PHIL 2405 [0.5 credit] (formerly 32.245*)
Philosophy of the Paranormal
 Examination of claims, concepts, theories and methods in parapsychology. Their scientific character and the relation of paranormal phenomena to philosophical issues such as survival of death, human nature, time, space, causality and perception.
 Prerequisite: at least 0.5 credit in Philosophy or permission of the Department.
 Lectures three hours a week.

PHIL 2501 [0.5 credit] (formerly 32.251*)
Introduction to Philosophy of Mind
 An introduction to major philosophical issues concerning human cognition. Topics may include: the relation of mind to body, knowledge of other minds, the relation of mental states to personhood and personal identity, mental illness,

consciousness, intentionality, action, mental realism.
 Precludes additional credit for PHIL 2502.
 Prerequisite: a course in philosophy or second year standing.

PHIL 2504 [0.5 credit] (formerly 32.254*)
Language and Communication
 Some of the central topics in the study of language and communication as pursued by linguists and philosophers. The nature of meaning; the connections between language, communication and cognition; language as a social activity. (Also listed as MCOM 2504 and LALS 2504.)
 Precludes additional credit for MCOM 2800, LALS 2800 and PHIL 2800.
 Prerequisite: second-year standing.
 Lectures three hours a week.

PHIL 2601 [0.5 credit] (formerly 32.261*)
Philosophy of Religion
 A philosophical examination of some characteristic concepts of religion, such as faith, hope, worship, revelation, miracle, God. (Also listed as RELI 3601.)
 Prerequisite: a course in Philosophy or second-year standing.
 Lectures three hours a week.

PHIL 2804 [0.5 credit] (formerly 32.284*)
Environments, Technology and Values
 Advanced treatment of ethical issues concerning technologies and environments, including: sustainable development, women and the environment, biological diversity, intrinsic or natural value or rights of non-humans, humans' relation to the rest of the natural world, obligations to future generations, liberty versus equality.
 Prerequisite: PHIL 1804 or permission of the Department.
 Lectures three hours a week.

PHIL 2806 [0.5 credit] (formerly 32.286*)
Art and Ideas: From Ancient Greece to the Twentieth Century
 A survey of theories that have shaped the Western approach to art and art criticism, including authors such as Plato, Aquinas, Kant, Hegel and Nietzsche. (Also listed as ARTH 2806.)
 Lectures three hours a week.

PHIL 2807 [0.5 credit] (formerly 32.287*)
Philosophy of Art
 Philosophical approaches to the study of art. Topics such as: the nature of art and artistic value; representation and symbolism in art; art and artifice; art and the emotions; art, culture and ideology; post-structuralism and art; theories of creativity; relationship between artworks and audiences. (Also listed as ARTH 2807.)
 Lecture three hours a week.

PHIL 2900 [1.0 credit] (formerly 32.290)
Truth and Propaganda
 Ancient and modern techniques of persuasion from analytical, ethical and jurisprudential perspectives. Objectivity and bias, advertising and public relations ethics, the viability of democracy in the light of pressures on and within the modern mass media. (Also listed as MCOM 2900.)
 Prerequisite: at least 0.5 credit in Philosophy or second-year standing.
 Lectures three hours a week.

PHIL 3001 [0.5 credit] (formerly 32.301*)
Early Greek Philosophy
 A study of the pre-Socratic Greek philosophers and of the Sophists and Socrates. (Also listed as CLCV 3001).
 Precludes additional credit for PHIL 2005.
 Prerequisite: PHIL 2006 or permission of the Department.
 Lectures three hours a week.

PHIL 3004 [0.5 credit] (formerly 32.304*)
Early Modern Philosophy: the Empiricists
 British philosophy of the late seventeenth and eighteenth century. Representative works of writers such as Locke,

Berkeley and Hume.

Precludes additional credit for PHIL 2105.

Prerequisite: at least 0.5 credit in the history of philosophy at the 2000-level or above, or permission of the Department.
Lectures three hours a week.

PHIL 3006 [0.5 credit] (formerly 32.306*)

German Idealism

The development of German idealism from Kant to Hegel.

Precludes additional credit for PHIL 3005.

Prerequisite: third-year standing or permission of the Department.
Lectures three hours a week.

PHIL 3007 [0.5 credit] (formerly 32.307*)

Reactions to German Idealism

A comparative study of reactions to German Idealism through examination of authors such as Schopenhauer and Nietzsche.

Precludes additional credit for PHIL 3005.

Prerequisite: at least 0.5 credit in the history of philosophy at the 2000-level or above or permission of the Department.
Lectures and seminar three hours a week.

PHIL 3008 [0.5 credit] (formerly 32.308*)

Hermeneutics, Critical Theory and Deconstruction

A study of the views of such writers as Gadamer, Habermas, Foucault and Derrida.

Precludes additional credit for PHIL 2700.

Prerequisite: at least 0.5 credit in the history of philosophy at the 2000-level or above or permission of the Department.
Lectures and seminar three hours a week.

PHIL 3101 [0.5 credit] (formerly 32.311*)

Philosophy of Law: The Nature of Law

The concept of law, and those concepts commonly associated with it, viz. rules, obligations, authority, coercion, and force. (Also listed as LAWS 3101.)

Prerequisite: at least 0.5 credit in Philosophy or permission of the Department.
Lectures three hours a week.

PHIL 3102 [0.5 credit] (formerly 32.312*)

Philosophy of Law: The Logic of Law

Legal reasoning and analysis of concepts of particular significance to the law, including justice, rights and duties, liability, punishment, ownership and possession. (Also listed as LAWS 3102.)

Prerequisite: PHIL 3101 or permission of the Department.
Lectures three hours a week.

PHIL 3103 [0.5 credit] (formerly 32.313*)

Moral Communication and Knowledge

Moral discourse and language use, focusing on how moral claims may be justified and whether moral knowledge is possible. Topics may include: theories of moral communication and justification; objectivity; realism and relativism; the role of community and culture; Eurocentrism; morality and gender.

Prerequisite: PHIL 2101 or PHIL 2102 or permission of the Department.
Lectures three hours a week.

PHIL 3104 [0.5 credit] (formerly 32.314*)

The Roots of Analytic Philosophy

In the context of the work of such writers as Frege and Bradley, a discussion of early philosophical works of Russell, Moore and Wittgenstein. In addition some early representatives of positivism and pragmatism will be examined.

Precludes additional credit for PHIL 3800.

Prerequisite: at least 2.0 credits in the history of philosophy at the 2000-level or above or permission of the Department.
Lectures and seminar three hours a week.

PHIL 3300 [1.0 credit] (formerly 32.330)

Social and Political Philosophy

A critical examination of major perspectives in social and political philosophy, such as classical and contemporary

liberalism, theories of solidarity and general will, feminism, contractarianism, Marxism, libertarianism, and communitarianism and their bearing on contemporary issues.

Prerequisite: at least 0.5 credit in Philosophy or permission of the Department.

Lectures two and one half hours a week.

PHIL 3301 [0.5 credit] (formerly 32.331*)

Issues in the Philosophy of Science

Main currents in the philosophy of natural and/or social science. Topics may include: comparative scientific methods in the natural and social sciences, realism, instrumentalism, anti-realism, constructivism, scientific reductions, theories of explanation, naturalism, and the social, political and ethical dimensions of science and scientific institutions.

Prerequisite: PHIL 2301 or permission of the department.

PHIL 3306 [0.5 credit] (formerly 32.336*)

Symbolic Logic

A review of the basic techniques of propositional and predicate logic. Natural deduction and consistency trees. Soundness and completeness. Alternative semantics. Extensions to basic logic: identity, modal logic with possible world semantics, three valued systems, deontic logic.

Precludes additional credit for PHIL 3305.

Prerequisite: PHIL 2001 or permission of the Department.
Lectures three hours a week.

PHIL 3400 [1.0 credit] (formerly 32.340)

Aesthetics

Theories of aesthetic norms and valuation from ancient Greece onward. Applications of aesthetic theory to various genres of art.

Precludes additional credit for PHIL 2400, PHIL 3401, and PHIL 3402.

Prerequisite: At least 0.5 credit in Philosophy, or HUMS 1000, or ARTH 2806 or ARTH 2807, or permission of the Department.

Seminar two hours a week.

PHIL 3401 [0.5 credit] (formerly 32.341*)

Aesthetic Theory

(First half of PHIL 3400, Aesthetics.) Theories of aesthetic norms and valuation from ancient Greece onward. Examines questions such as: What is beauty? What is the relationship between aesthetic and moral values? Is taste objective or subjective? Are aesthetic values culturally determined? Typical authors include Plato, Hume, Kant, Nietzsche and Heidegger.

Precludes additional credit for PHIL 2401 and PHIL 3400.

Prerequisite: At least 0.5 credit in Philosophy, or HUMS 1000, or ARTH 2806 or ARTH 2807, or permission of the Department.

Seminar two hours a week.

PHIL 3402 [0.5 credit] (formerly 32.342*)

Applied Aesthetics

(Second half of PHIL 3400, Aesthetics.) Applications of aesthetic theory to various genres of art. May include issues such as: problems in the description, interpretation and evaluation of works of art, the relationship between artistic and aesthetic value, and the significance of reproduction and communication technologies for traditional aesthetic theory.

Precludes additional credit for PHIL 2402 and PHIL 3400.

Prerequisite: At least 0.5 credit in Philosophy, or HUMS 1000, or ARTH 2806 or ARTH 2807, or permission of the Department.

Seminar two hours a week.

PHIL 3408 [0.5 credit] (formerly 32.348*)

Bioethics

Philosophical topics such as the nature and implications of personhood, privacy, and rights in the context of medical practice and health care.

Prerequisite: PHIL 2101 or PHIL 2102; or permission of the Department.

Lectures three hours a week.

PHIL 3501 [0.5 credit] (formerly 32.351*)
Philosophy of Cognitive Science and Artificial Intelligence

Philosophical issues arising from cognitive science. Topics may include: the proper methodology for studying the mind, the very possibility of a "science of mind", the computer model of the mind and reactions to it, philosophical implications of work in artificial intelligence (symbolic and connectionist).

Prerequisite: PHIL 2501 or PHIL 2502 or second year standing in Cognitive Science, or permission of the department.

PHIL 3502 [0.5 credit] (formerly 32.352*)

Mind and Action

Philosophical thought concerning the relation between mentality and agency. Topics may include: the relation between belief, desire, and behaviour; rationality and normativity; representing and doing; subjectivity and intersubjectivity; physical and psychological laws; mental causation. Authors may include; Wittgenstein, Heidegger, Ryle, Sellars, Anscombe, Davidson, Taylor, and McDowell.

Prerequisite: PHIL 2501 or PHIL 2502, or permission of the Department.

PHIL 3504 [0.5 credit] (formerly 32.354*)

Pragmatics

The theoretical study of language use, as pursued by linguists and philosophers. Conversational implicature, deixis; the semantics-pragmatics boundary; speaker's reference; speech acts. (Also listed as MCOM 3504 and LALS 3504.)

Precludes additional credit for MCOM 2800, LALS 2800 and PHIL 2800.

Prerequisite: at least 0.5 credits in Philosophy or Linguistics and Applied Language Studies or second-year standing. Lectures three hours a week.

PHIL 3506 [0.5 credit] (formerly 32.356*)

Semantics

The study of meaning as a part of the study of communication. Organization of the semantic structure of language, and the relation of this structure to the lexicon.

Prerequisite: at least 0.5 credit in Philosophy or Linguistics; or permission of the department. Lecture three hours a week.

PHIL 3901 [0.5 credit] (formerly 32.391*)

Independent Study

Essays and/or examinations based on a list of readings provided by the instructor.

Prerequisite: normally restricted to students with at least 3.0 credits in Philosophy and with high standing in Philosophy courses and permission of the Department.

PHIL 3902 [0.5 credit] (formerly 32.392*)

Independent Study

Essays and/or examinations based on a list of readings provided by the instructor.

Prerequisite: normally restricted to students with at least 3.0 credits in Philosophy and with high standing in Philosophy courses and permission of the Department.

PHIL 3903 [0.5 credit] (formerly 32.393*)

Independent Study

Essays and/or examinations based on a list of readings provided by the instructor.

Prerequisite: normally restricted to students with at least 3.0 credits in Philosophy and with high standing in Philosophy courses and permission of the Department.

PHIL 3906 [0.5 credit] (formerly 32.396*)

Independent Study

Essays and/or examinations based on a bibliography constructed by the student in consultation with the instructor.

Prerequisite: normally restricted to students with at least 3.0 credits in Philosophy and with high standing in Philosophy courses and permission of the Department.

PHIL 3907 [0.5 credit] (formerly 32.397*)

Independent Study

Essays and/or examinations based on a bibliography constructed by the student in consultation with the instructor.

Prerequisite: normally restricted to students with at least 3.0 credits in Philosophy and with high standing in Philosophy courses and permission of the Department.

PHIL 3908 [0.5 credit] (formerly 32.398*)

Independent Study

Essays and/or examinations based on a bibliography constructed by the student in consultation with the instructor.

Prerequisite: normally restricted to students with at least 3.0 credits in Philosophy and with high standing in Philosophy courses and permission of the Department.

PHIL 4003 [0.5 credit] (formerly 32.403*)

Seminar in Philosophy Before the Modern Period

Detailed study of selected philosophers or issues in philosophy before the modern period.

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department. Seminar two hours a week.

PHIL 4004 [0.5 credit] (formerly 32.404*)

Seminar in Philosophy Before the Modern Period

Detailed study of selected philosophers or issues in philosophy before the modern period.

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department. Seminar two hours a week.

PHIL 4005 [0.5 credit] (formerly 32.405*)

Seminar in Modern Philosophy

Detailed study of selected philosophers or issues in modern philosophy.

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department. Seminar two hours a week.

PHIL 4006 [0.5 credit] (formerly 32.406*)

Seminar in Modern Philosophy

Detailed study of selected philosophers or issues in modern philosophy. Also offered at the graduate level, with additional or different requirements, as PHIL 5400, for which additional credit is precluded.

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department. Seminar two hours a week.

PHIL 4007 [0.5 credit] (formerly 32.407*)

Seminar in Contemporary Philosophy

Detailed study of selected philosophers or issues in contemporary philosophy.

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department. Seminar two hours a week.

PHIL 4008 [0.5 credit] (formerly 32.408*)

Seminar in Contemporary Philosophy

Detailed study of selected philosophers or issues in contemporary philosophy.

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department. Seminar two hours a week.

PHIL 4103 [0.5 credit] (formerly 32.413*)

Seminar in Philosophy of Action, Mind or Language

Detailed study of selected issues or the work of selected philosophers in theory of action, or philosophy of mind, or philosophy of language. Also offered at the graduate level, with additional or different requirements, as PHIL 5200, for which additional credit is precluded.

Prerequisite: eligibility for fourth year standing in a Philosophy Honours programme or permission of the Department.

PHIL 4104 [0.5 credit] (formerly 32.414*)

Seminar in Philosophy of Language or Mind

Detailed study of selected issues or the work of selected

philosophers in philosophy of language or mind. Also offered at the graduate level, with additional or different requirements, as PHIL 5200, for which additional credit is precluded.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4105 [0.5 credit] (formerly 32.415*)

Seminar in Moral or Political Philosophy

Detailed study of selected issues or the work of selected philosophers in moral or political philosophy. Also offered at the graduate level, with additional or different requirements, as PHIL 5300, for which additional credit is precluded.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4106 [0.5 credit] (formerly 32.416*)

Seminar in Moral or Political Philosophy

Detailed study of selected issues or the work of selected philosophers in moral or political philosophy. Also offered at the graduate level, with additional or different requirements, as PHIL 5300, for which additional credit is precluded.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4201 [0.5 credit] (formerly 32.421*)

Special Topic in Epistemology

Detailed study of a special topic in epistemology.
Prerequisite: fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4202 [0.5 credit] (formerly 32.422*)

Special Topic in Epistemology

Detailed study of a special topic in epistemology.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4203 [0.5 credit] (formerly 32.423*)

Special Topic in Feminist Philosophy

Detailed study of a special topic in feminist philosophy.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4204 [0.5 credit] (formerly 32.424*)

Special Topic in Feminist Philosophy

Detailed study of a special topic in feminist philosophy.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4205 [1.0 credit]

Special Topic in Metaphysics

Detailed study of a special topic in metaphysics.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4206 [0.5 credit]

Special Topic in Metaphysics

Detailed study of a special topic in metaphysics.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4301 [0.5 credit] (formerly 32.431*)

Special Topic in Logic

Detailed study of a special topic in Logic.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4302 [0.5 credit] (formerly 32.432*)

Special Topic in Logic

Detailed study of a special topic in Logic.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4303 [0.5 credit] (formerly 32.433*)

Special Topic in Philosophical Logic

Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4304 [0.5 credit] (formerly 32.434*)

Special Topic in Philosophical Logic

Detailed study of a special topic in Philosophical Logic.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4403 [0.5 credit] (formerly 32.443*)

Special Topic in Applied Ethics

Detailed study of a special topic in applied ethics.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4404 [0.5 credit] (formerly 32.444*)

Special Topic in Applied Ethics

Detailed study of a special topic in applied ethics.
Prerequisite: eligibility for fourth-year standing in a Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4405 [0.5 credit] (formerly 32.445*)

Special Topic in Aesthetics or Philosophy of Art

Detailed study of a special issue or a single author in aesthetics and/or philosophy of art.
Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4406 [0.5 credit] (formerly 32.446*)

Special Topic in Aesthetics or Philosophy of Art

Detailed study of a special issue or a single author in aesthetics and/or philosophy of art.
Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4407 [0.5 credit] (formerly 32.447*)

Special Topic in Philosophy of Law

Detailed study of a special topic in philosophy of law. (Also listed as LAWS 4103)
Prerequisite: eligibility for fourth-year standing in a Law or Philosophy Honours program or permission of either Department.
Seminar two hours a week.

PHIL 4408 [0.5 credit] (formerly 32.448*)

Special Topic in Philosophy of Law

Detailed study of a special topic in philosophy of law. (Also listed as LAWS 4104)
Prerequisite: eligibility for fourth-year standing in a Law or Philosophy Honours program or permission of either Department.
Seminar two hours a week.

PHIL 4503 [0.5 credit] (formerly 32.453*)

Special Topic in Philosophy of Computing

Detailed study of a special topic in philosophy of computing.
Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4504 [0.5 credit] (formerly 32.454*)

Special Topic in Philosophy of Computing

Detailed study of a special topic in philosophy of computing.
Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.
Seminar two hours a week.

PHIL 4505 [0.5 credit]

Contemporary Formal Semantics

Topics may include: desiderata for an empirical theory of meaning; philosophical and logical precursors to contemporary truth-conditional semantics; Montague

grammar and/or other intensional frameworks; quantification, anaphora, and logical form; boundaries between syntax, semantics and pragmatics; recent applications of formal semantics. (Also listed as LALS 4507.)

Prerequisite: two of PHIL 2001, LALS/MCOM/PHIL 2504, LALS 2003, LALS 3505.

Lectures three hours a week.

PHIL 4507 [0.5 credit]

Contemporary Formal Semantics

Topics may include: desiderata for an empirical theory of meaning; philosophical and logical precursors to contemporary truth-conditional semantics; Montague grammar and/or other intensional frameworks; quantification, anaphora, and logical form; boundaries between syntax, semantics and pragmatics; recent applications of formal semantics.

Prerequisite: two of PHIL 2001, LALS/MCOM/PHIL 2504, LALS 2003, LALS 3505.

Lectures three hours a week.

PHIL 4506 [0.5 credit] (formerly 32.456*)

Special Topic in Philosophy of Science

Detailed study of a special topic in philosophy of science.

Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.

Seminar two hours a week.

PHIL 4507 [0.5 credit] (formerly 32.457*)

Special Topic in Philosophy of Science

Detailed study of a special topic in philosophy of science.

Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.

Seminar two hours a week.

PHIL 4606 [0.5 credit] (formerly 32.466*)

Special Topic in Continental Philosophy

Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.

Seminar two hours a week.

PHIL 4607 [0.5 credit] (formerly 32.467*)

Special Topic in Continental Philosophy

Prerequisite: eligibility for fourth-year standing in Philosophy Honours program or permission of the Department.

Seminar two hours a week.

PHIL 4900 [1.0 credit] (formerly 32.490)

Tutorial

Prerequisite: permission of the Department.

PHIL 4901 [0.5 credit] (formerly 32.491*)

Tutorial

Prerequisite: permission of the Department. Note: Students who wish to enrol in a tutorial course must consult the Undergraduate Supervisor, before registration.

PHIL 4902 [0.5 credit] (formerly 32.492*)

Tutorial

Prerequisite: permission of the Department. Note: Students who wish to enrol in a tutorial course must consult the Undergraduate Supervisor, before registration.

PHIL 4903 [0.5 credit] (formerly 32.493*)

Tutorial

Prerequisite: permission of the Department. Note: Students who wish to enrol in a tutorial course must consult the Undergraduate Supervisor, before registration.

PHIL 4904 [0.5 credit] (formerly 32.494*)

Tutorial

Prerequisite: permission of the Department. Note: Students who wish to enrol in a tutorial course must consult the Undergraduate Supervisor, before registration.

PHIL 4906 [0.5 credit] (formerly 32.496*)

Tutorial

Prerequisite: permission of the Department. Note: Students who wish to enrol in a tutorial course must consult the Undergraduate Supervisor, before registration.

Physics (PHYS)

Department of Physics

Faculty of Science

Note: Please consult with the Physics Department for advice on which first year course to take.

PHYS 1001 [0.5 credit] (formerly 75.101*)

Foundations of Physics I

This calculus-based course covers mechanics, gravitation, oscillations, and thermodynamics. The laboratory is an essential and autonomous part of the course. This is a specialist course for students intending to take further courses in Physics.

Precludes additional credit for PHYS 1003, PHYS 1005 and PHYS 1007.

Prerequisite: OAC's in Physics and Calculus (or equivalents). MATH 1004 or MATH 1007 or MATH 1002 (may be taken concurrently); or permission of the Department. Although not a requirement, an OAC in Algebra and Geometry is recommended.

Lectures three hours a week, tutorial one hour a week, laboratory three hours a week.

PHYS 1002 [0.5 credit] (formerly 75.102*)

Foundations of Physics II

An introduction to relativity, electricity, magnetism, wave motion and quantum mechanics. The laboratory is an essential and autonomous part of the course. This is a specialist course for students intending to take further courses in physics.

Precludes additional credit for PHYS 1004, PHYS 1005 and PHYS 1008.

Prerequisites: PHYS 1001, or PHYS 1003, or PHYS 1007 with a grade of B-; MATH 1004 or MATH 1007 or MATH 1002 (may be taken concurrently); or permission of the Department.

Lectures three hours a week, tutorial one hour a week, laboratory three hours a week.

PHYS 1003 [0.5 credit] (formerly 75.103*)

Introductory Mechanics and Thermodynamics

This calculus-based course covers mechanics, gravitation, oscillations, and thermodynamics. The laboratory is an essential and autonomous part of the course.

Precludes additional credit for PHYS 1001, PHYS 1005 and PHYS 1007.

Prerequisites: OAC's in Physics and Calculus (or equivalents); MATH 1004 or MATH 1007 or MATH 1002 (may be taken concurrently); or permission of the Department. Although not a requirement, an OAC in Algebra and Geometry is recommended.

Lectures three hours a week, tutorial one hour a week, laboratory three hours a week.

PHYS 1004 [0.5 credit] (formerly 75.104*)

Introductory Electromagnetism and Wave Motion

This calculus-based course introduces electricity, magnetism, oscillations, waves and optics. The laboratory is an essential and autonomous part of the course.

Precludes additional credit for PHYS 1002, PHYS 1005 and PHYS 1008.

Prerequisites: MATH 1004 or MATH 1007, ECOR 1101 or PHYS 1001 or PHYS 1003 or PHYS 1007 with a grade of B-, or permission of the Department.

Lectures three hours a week, tutorial one hour a week, laboratory three hours a week.

PHYS 1007 [0.5 credit] (formerly 75.107*)

Elementary University Physics I

Mechanics, properties of matter, thermodynamics. Applications chosen in part from the life sciences. For students who do not intend to take additional courses in Physics or who lack the prerequisites for PHYS 1001.

Precludes additional credit for PHYS 1001, PHYS 1003 and PHYS 1005.

Prerequisite: MATH 0107 (may be taken concurrently).

Lectures three hours a week, laboratory three hours a week.