

## Key to Course Listings

**Catalog numbers** are part of a University-wide numbering system. Generally, courses numbered 100 to 199 are introductory, 200-299 are intermediate, and 300-499 are advanced (upper-level).

**Reorganized or renumbered courses** are denoted by a parenthetical number in boldface following the course number. When renumbering or reorganization has left the SUBJECT unchanged, only the previous catalog number is given; if the SUBJECT has also changed, the previous SUBJECT name and course number appear. A reorganized or renumbered course cannot be repeated for credit without special permission.

**Cross-listed courses** are sponsored by more than one department or program and may be elected in any of the participating units. Cross-listings appear in boldface and are denoted by a slash between the participating units.

**Course titles** appear in boldface after the catalog number.

**Prerequisites** appear in italics after the course title. Some prerequisites are advisory. They suggest the assumed background or level of academic experience, and students should be guided by these statements. Some prerequisites are mandatory and are enforced at the point of registration. The *Course Guide* and the *LS&A Bulletin* indicate the cases when prerequisites are enforced.

Prerequisites are of three types:

- *Courses*. Unless otherwise stated, the phrase "or equivalent" may be considered an implicit part of the prerequisite for any course. When a student has satisfactorily completed a course(s) at the required level of competency and when that course is believed to be substantially equivalent to one listed as a prerequisite, the student must consult the instructor or department. If equivalency is determined to have been satisfied, election may be approved by issuance of electronic permission.
- *Class standing* (first year, sophomore, junior, senior). A course might be appropriate for "first and second year students only," or for "juniors and seniors."
- *Permission of instructor*. The phrase "or permission of instructor" may be considered an implicit part of the statement of prerequisites for any course. When permission is a stated requirement, or when a student does not have the stated prerequisite for a course but can give evidence of sufficient background, the student should obtain approval from the instructor or department concerned and an electronic permission issued.

**The Credit Symbol**, an Arabic numeral in parentheses, denotes the credits earned for the course. Credit is granted in semester hours. Except for small seminars where the reading and/or writing requirements are intensive, one credit represents no less than one hour of class meeting time each week of the term, and usually represents two hours of work outside of class for each class hour.

**Area distribution designation** is approved by the LS&A Curriculum Committee on a yearly basis. A course may be approved with the designation natural science (*NS*), social science (*SS*), humanities (*HU*), mathematical and symbolic analysis (*MSA*), creative expression (*CE*), interdisciplinary (*ID*), or excluded from distribution (*Excl*).

**Courses meeting certain college requirements** are so listed. Language other than English (*LR*) courses may be used toward meeting the Language Requirement. The First-Year Writing Requirement may be met by courses designated (Introductory Composition). Courses approved with the designation "Language Requirement" or "Introductory Composition" may not be used as part of an area distribution plan. If an introductory language course is designated "Excluded" (*Excl*), it may not be used to satisfy the LS&A language requirement. (*BS*) means that the course may be used toward the 60 approved credits required for the B.S. degree. Courses meeting or partially meeting the Quantitative Reasoning

requirement are designated (*QR/1*) or (*QR/2*). Courses with standard approval for meeting the Race & Ethnicity (*R&E*) requirement are so indicated. Other courses may meet the R&E or QR requirements on a term-by-term basis and are listed on the LS&A website (<http://www.lsa.umich.edu/>).

**Experiential, Independent Study, and Tutorial** courses are so designated. (See Experiential and Directed Reading/Independent Study Courses in *Chapter IV*.)

**Repetition** of a course that varies in content from term to term is permitted only under certain conditions. When a department or program has a policy about the repetition of a course for credit, that policy is included in the course listing. The general statement "May be repeated for credit with permission" usually means "With permission of a concentration advisor." In all other instances, a student must get permission from both the department or program and the Academic Standards Board to repeat a course for credit. Generally, a course may be elected for credit once only.

**Excluded combinations of course elections** are designated in the listing of affected courses.

**Special Grading pattern** for a course is indicated in the course listing. Some LS&A courses are offered *mandatory credit/no credit*. (See Non-Graded Courses in *Chapter IV*.)

**The Term Symbol**, a Roman numeral, denotes the term(s) some courses are offered. The University year is divided into three terms: Fall (I), Winter (II), and Spring-Summer (III). The Spring-Summer Term is further divided: Spring-Half (IIIa) and Summer-Half (IIIb).

### Courses That Count Toward Graduate Programs

*Courses Approved for Regular Rackham Graduate Credit*. All courses taken in fulfillment of Rackham degree requirements must be approved for Rackham graduate credit. Be certain that any courses you plan to take--especially those numbered in the 400s--are approved for Rackham credit before you enroll in them. The Graduate School policy on courses is as follows: Courses at the 400 level and above are acceptable for graduate credit if they have been approved by the Graduate School.

If you are uncertain whether or not a course is approved for Rackham credit, check with the department offering the course or with the Rackham Course Approval Officer (764-8221).

If you elect a course that has not been approved for Rackham graduate credit, the course will appear on your university transcript with the notation "Not for Graduate Credit. The course grade will appear on the transcript, but it will not be averaged into your cumulative grade point average or your credit toward program (CTP) total.

*Courses Not Approved for Graduate Credit*. Courses at the 300 level and below are not acceptable for graduate credit, without exception. Undergraduate level foreign language courses may occasionally be used in fulfillment of some departmental foreign language requirements.

Under unusual circumstances you may petition to receive graduate credit for a course not normally approved for graduate credit (*e.g.*, such as an undergraduate course where you will be expected to perform more advanced work than the undergraduates). Because there is no guarantee of approval, you should submit your petition to the Graduate School's Office of Academic Records and Dissertations (OARD) before taking the course. Your petition must be endorsed by the course instructor and by the graduate chair of your department or program, and it must include an explanation for requesting the exception. You will be expected to perform graduate level work in the course, and the petition must show how this will be accomplished. You may obtain a petition form from your department, from OARD, or online.

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# Philosophy

## Philosophy

### Philosophy PHIL 442

LSA  
Philosophy  
Philosophy

<http://www.lsa.umich.edu/philosophy/>

### Undergraduate Courses

- 151 **PHIL 151.**  
**Philosophical Dimensions of Personal Decisions.**  
(3,2) : May not be repeated for credit.  
(HU).  
*Students are strongly advised not to take more than two Philosophy Introductions.*  
A systematic philosophical study of issues that arise in making decisions about how to lead one's life. Among the questions to be considered are: In what sense, if any, are we able to choose our lives? In what ways, if any, must we be able to justify our lives--to others, to ourselves? What are the sources of meaning, worth, and identity in our lives?
- 155 **PHIL 155.**  
**The Nature of Science.**  
(3,2) : May not be repeated for credit.  
(HU).  
*Students are strongly advised not to take more than two Philosophy Introductions.*  
An examination of the nature and methods of science, especially in relation to the natural sciences. Topics include: observation and evidence, the objectivity of science, causality and explanation, the reality of scientific constructs, the development of scientific theories, and the use of mathematics in science.
- 180 **PHIL 180.**  
**Introductory Logic.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Credit is granted for only one of PHIL 180 or 201. I, II, IIIb.*  
PHIL 180 is a combination of formal and "informal" logic. It covers diagramming argument structures, fallacy theory, Mill's methods, intensional vs. extensional definitions, syllogistic logic, and propositional logic.
- 181 **PHIL 181.**  
**Philosophical Issues: An Introduction.**  
(3,2) : May not be repeated for credit.  
(HU).  
*No credit granted to those who have completed or are enrolled in PHIL 182, 202, 231, 232, 234, or 297. I, II, IIIa, IIIb.*  
An introduction to the basic issues and methods of philosophy. Topics and readings are from both traditional and contemporary philosophy, and include discussion of such issues as the nature and foundation of knowledge, the source and justification of moral values, the relation of mind and body, and determinism and free will.
- 196 **PHIL 196.**  
**First-Year Seminar.**  
(3) : May not be repeated for credit.  
(HU).  
*Only first-year students, including those with sophomore standing, may pre-register for First-Year Seminars. All others need permission of instructor.*  
This course is designed to provide first-year students with an intensive introduction to philosophy in a seminar format. The content varies, depending on the instructor.

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- 201 **PHIL 201.**  
**Introduction to Logic.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Credit is granted for only one of PHIL 180 or 201.*  
 An introduction to logic at the elementary level. Topics include discussions of such notions as the validity and invalidity of arguments, fallacies in reasoning, the nature of argument, and the justification of belief. Basic elements of deductive reasoning are considered, and there is a survey of fundamental principles of modern formal logic. Elements of inductive reasoning may also be discussed.
- 202 **PHIL 202.**  
**Introduction to Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
*No credit granted to those who have completed or are enrolled in PHIL 181, 182, 231, 232, 234, or 297.*  
 An introduction to the basic problems and methods of philosophy. The course may be oriented around certain fundamental problems of philosophy, with a content similar to that of Phil. 232, or it may have a more historical orientation. The course differs from PHIL 232 and PHIL 234 in that it is taught in class sections.
- 230 **PHIL 230 / ASIAN 230 / RELIGION 230.**  
**Introduction to Buddhism.**  
 (4,4) : May not be repeated for credit.  
 (HU).  
*May not be included in a concentration plan in philosophy.*  
 Introductory lectures and readings on the history and literature of Buddhism in India and Tibet followed by a discussion of the basic problems of Buddhist religion and philosophy in the light of selected Buddhist texts in translation.
- 232 **PHIL 232.**  
**Problems of Philosophy.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
*No credit granted to those who have completed or are enrolled in PHIL 181, 182, 202, 231, 234, or 297.*  
 An introduction to the basic problems and methods of philosophy. Such problems as the nature of the world and the place of minds in it, the grounds for our beliefs about the world, the justification of religious beliefs, and the nature and justification of our moral principles are considered. Readings from the works of philosophers of historical importance and from contemporary philosophers are assigned. The course is taught by lecture and discussion sections.
- 262 **PHIL 262 / RELIGION 262.**  
**Introduction to the Philosophy of Religion.**  
 (4,3) : May not be repeated for credit.  
 (Excl).  
 An introduction to the philosophy of religion. The course covers, among other topics: traditional arguments for the existence of the God of the world's major monotheistic religions; the problem of evil; the relation of religion and morality; and the question of religious tolerance.
- 263 **PHIL 263 / ASIAN 263.**  
**Introduction to Chinese Philosophy.**  
 (4,3) : May not be repeated for credit.  
 (HU).  
 This course focuses on the major philosophical schools of Classical China from the Warring States period (453-221 BCE) to the end of the Qing dynasty (1644-1911 CE). Special consideration is given to the ethical, religious and political thought of Confucian, Mohist, Daoist schools in early China, and the Neo-Confucian developments in later imperial periods.

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- 265 **PHIL 265(360) / ASIAN 265 / HISTART 265 / RCHUMS 265.**  
**The Arts and Letters of China.**  
 (4,4) : May not be repeated for credit.  
 (HU).  
*May not be included in a concentration plan in philosophy.*  
 An interdisciplinary introduction to Chinese civilization through the study of significant and representative works from philosophy, art, drama, and literature. Taught jointly by a team of faculty specialists.
- 296 **PHIL 296.**  
**Honors Introduction to Logic.**  
 (3,2) : May not be repeated for credit.  
 (MSA). (BS). (QR/1).  
*Honors students or permission of instructor. Credit is granted for only one of PHIL 203, 303, or 296.*  
 An introduction to the study of modern formal logic, with attention to its mathematical development and to its philosophical foundations and applications.
- 297 **PHIL 297.**  
**Honors Introduction to Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
*Honors students or permission of instructor. No credit granted to those who have completed or are enrolled in PHIL 181, 182, 202, 231, 232, or 234.*  
 A thorough examination of selected philosophical problems.
- 303 **PHIL 303.**  
**Introduction to Symbolic Logic.**  
 (4,3) : May not be repeated for credit.  
 (MSA). (BS).  
*No credit granted to those who have completed or are enrolled in PHIL 203, 296 or 414. I, II, IIIa.*  
 An introduction to formal logic with emphasis on truth-functional languages and monadic predicate logic with identity. The course covers the metatheory of truth-functional logic in detail, and also basic concepts of the proof theory and model theory for first-order languages.
- 319 **PHIL 319.**  
**Philosophy of the Arts.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
*One philosophy introduction. No credit granted to those who have completed or are enrolled in PHIL 419.*  
 Philosophical problems concerning the interpretation and evaluation of the arts, and the place of the arts in society.
- 320 **PHIL 320.**  
**The World-View of Modern Science.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
 A philosophical examination of the relation between our "common-sense" conception of reality and the world-view presented by modern science, especially physics. This course explores such topics as the impact of relativistic physics on our views about space and time and the impact of quantum mechanics on our views about causation, chance, and free will. No scientific background is presupposed as nontechnical expositions of the theories are presented in the course.
- 322 **PHIL 322.**  
**The Methods of Science.**  
 (3,2) : May not be repeated for credit.  
 (ID).  
 An introduction to the philosophy of science. It focuses on "epistemological" issues that arise in science: the nature of the experimental method, the limits of observation, inductive inference, and statistical reasoning. Points are illustrated using examples from the history of science, particularly astronomy and astrophysics.

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- 340 **PHIL 340.**  
**Mind, Matter, and Machines.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
 A study of some central questions about the human mind and its place in nature. Topics may include the materialist vs. the dualist conceptions of mind, behaviorism, minds as machines, the mentality of computing devices, and the concept of a person as an enduring entity and moral agent.
- 345 **PHIL 345.**  
**Language and Mind.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
*One philosophy course.*  
 A study of the structure of language; the psychological mechanisms underlying language; the nature of meaning; and the relations among language, thought, and the world.
- 355 **PHIL 355.**  
**Contemporary Moral Problems.**  
 (4,2) : May not be repeated for credit.  
 (HU). (R&E).  
*No credit granted to those who have completed or are enrolled in PHIL 455.*  
 The purpose of this course is to explore the moral issues confronting us in our daily lives and in our special disciplines. The topics discussed may include abortion, sex and sexual perversion, drugs, death and suicide, civil disobedience, punishment, pacifism, war, problems in medical ethics (eugenics, euthanasia, sanctity of life, organ transplants, defining death), environmental ethics, and the ethics of scientific research.
- 356 **PHIL 356.**  
**Issues in Bioethics.**  
 (4,3) : May not be repeated for credit.  
 (HU).  
*No prerequisites; one philosophy introduction is recommended.*  
 An examination of various ethical issues having to do with biology, medicine, and human and animal life in general, such as abortion, euthanasia, the idea of the rights of animals, medical care and the rights and obligations involved in it.
- 359 **PHIL 359.**  
**Law and Philosophy.**  
 (4,2) : May not be repeated for credit.  
 (HU). (R&E).  
 A philosophical analysis of legal institutions. Topics include: the nature of law, the source of legal authority, legal interpretation, equality and discrimination, democracy and voting rights, property rights and distributive justice, social control and liberty, the justification of punishment, and criminal responsibility.
- 361 **PHIL 361.**  
**Ethics.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
*One philosophy introduction. I.*  
 An introduction to fundamental issues in moral philosophy.
- 365 **PHIL 365 / RELIGION 365.**  
**Problems of Religion.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
 A philosophic examination of basic religious problems such as the nature of religion, the existence and nature of God, methods of attaining religious knowledge, the problem of evil, and immortality.

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- 366 **PHIL 366.**  
**Introduction to Political Philosophy.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
*One philosophy introduction.*  
 A discussion of some of the major philosophical problems of the state. Topics discussed may include justification of the power of states, political authority and obligation, political freedom, democracy, representation, and justice.
- 371 **PHIL 371.**  
**Phenomenology and Existential Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
*PHIL 181, 196, 202, 232, 234 or 297 with at least a C- (Prerequisites enforced at registration).*  
 Survey of post-1800 continental philosophy, with an emphasis on existentialism and phenomenology. Readings from Kierkegaard, Dostoevsky, Nietzsche, Kaka, Husserl, Heidegger, Jaspers, Sartre, leau-Ponty. Most readings are taken from philosophical texts rather than literary ones.
- 383 **PHIL 383.**  
**Knowledge and Reality.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
*One course in philosophy.*  
 An introduction to contemporary epistemology and metaphysics through an examination of such central topics as skepticism and the possibility of knowledge, the structure of epistemic justification, perceptions as a source of knowledge of the world, *a priori* knowledge, the persistence of persons and objects, the nature of causality, and the modes of existence.
- 385 **PHIL 385.**  
**European Social Thought from Hegel to Foucault.**  
 (3,2) : May not be repeated for credit.  
 (HU).  
*PHIL 181, 196, 202, 232, 234 or 297 with at least a C- (Prerequisites enforced at registration).*  
 Survey of post-1800 continental philosophy, with an emphasis on political theory and philosophy of social science. Readings from Hegel, Feurbach, Marx, Nietache, Freud, Rickert, Weber, Lukács, Horkheimer, Adorno, Habermas, Foucault.
- 388 **PHIL 388 / CLCIV 388.**  
**History of Philosophy: Ancient.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
*One philosophy introduction. A knowledge of Greek or Latin is not required. Taught in English. I.*  
 Western philosophy from its historical beginning through the Hellenistic period and including the pre-Socratics, Plato, Aristotle, Epicurus, Stoicism, and Scepticism.
- 389 **PHIL 389.**  
**History of Philosophy: Seventeenth and Eighteenth Centuries.**  
 (4,2) : May not be repeated for credit.  
 (HU).  
*One philosophy introduction. II.*  
 An important formative period in modern Western philosophy. Writings of most or all of the following are studied: Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. The course is planned with the needs of philosophy majors in mind and concentrates on metaphysical and epistemological issues. There may be some attention to the moral philosophy of the period.
- 397 **PHIL 397.**  
**Topics in Philosophy.**  
 (1-4,2) : May be elected twice for credit. Repetition requires permission of the concentration advisor.  
 (Excl).  
*Consent of instructor required (Prerequisites enforced at registration). Permission of concentration advisor and instructor.*  
 This course number is designed to permit philosophy concentrators, upon recommendation of a concentration advisor, to elect a course a second time for credit when it has a different instructor and covers substantially different material.

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- 399 **PHIL 399.**  
**Independent Study.**  
 (1-4,1-4) : May be elected twice for credit. Repetition requires permission of the concentration advisor.  
 (Excl). (INDEPENDENT).  
*Consent of instructor (Prerequisites enforced at registration). One philosophy introduction. I, II, IIIa.*  
 Independent study of a topic not otherwise available through a regular departmental offering.
- 401 **PHIL 401.**  
**Undergraduate Honors Seminar.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Open to Honors concentrators in Philosophy and others by permission of instructor. I.*  
 A discussion of selected topics of contemporary philosophical interest within a seminar format. Students write papers for presentation and discussion in class.
- 498 **PHIL 498.**  
**Senior Honors in Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Consent of instructor required (Prerequisites enforced at registration). By departmental permission only. Continuing Course. Y grade can be reported at end of the first-term to indicate work in progress. At the end of the second term (PHIL 499), the final grade is posted for both term's elections.*  
 Students who wish to elect the PHIL 498-499 sequence should consult with the departmental honors advisor by the end of the preceding academic year.
- 499 **PHIL 499.**  
**Senior Honors in Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Consent of instructor required (Prerequisites enforced at registration). By departmental permission only. II, IIIb.*  
 Students who wish to elect the PHIL 498-499 sequence should consult with the departmental honors advisor by the end of the preceding academic year.

### Undergraduate Courses; Graduate credit with Additional Work

- 497 **PHIL 497.**  
**Philosophy Mini-Course.**  
 (1-2,1;1-2,1) : May not be repeated for credit.  
 (Excl).  
*Rackham credit requires additional work.*  
 Mini-course meant to examine a topic, as designated by the section title

### Undergraduate and Graduate Courses

- 402 **PHIL 402.**  
**Undergraduate Seminar in Philosophy.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*Open to junior and senior Philosophy concentrators and to others by permission of concentration advisor.*  
 A discussion of selected topics of contemporary philosophical interest within a seminar format. Students write papers for presentation and discussion in class.
- 405 **PHIL 405.**  
**Philosophy of Plato.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*One philosophy introduction.*  
 A systematic study of Plato's philosophy.

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- 406 **PHIL 406.**  
**Aristotle.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 181, 196, 202, 232, 234 or 297 with at least a C-; or graduate standing (Prerequisites enforced at registration).*  
 A systematic study of Aristotle's philosophy.
- 409 **PHIL 409.**  
**Philosophy of Language.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 345 or 383.*  
 A consideration of basic concepts and methods used by philosophers and linguists to analyze language and of fundamental problems concerning language and its place in human activity. Among the topics which may be considered are meaning, reference, synonymy, analyticity, speech acts, ambiguity, metaphor, truth and logical truth, and the relation of language, thought, and culture.
- 414 **PHIL 414.**  
**Mathematical Logic.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl). (BS). (QR/1).  
*PHIL 303 with a grade of at least C- or graduate standing (Prerequisites enforced at registration). I.*  
 An introduction to truth function theory and quantification theory, including the completeness of quantification theory.
- 416 **PHIL 416.**  
**Modal Logic.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl). (BS).  
*PHIL 414.*  
 The logic of necessity, possibility, and other intensional discourse. Emphasis is placed on the formal semantical structures of Montague, Kripke, and Scott in the analysis of both propositional and quantified modal languages and on the model theory of these structures.
- 417 **PHIL 417.**  
**Logic and Artificial Intelligence.**  
 (3;3) : May not be repeated for credit.  
 (Excl).  
*PHIL 414.*  
 A survey of uses of logic in the field of Artificial Intelligence. Topics to be addressed include: nonmonotonic logic (the logic of general rules that can have exceptions), planning and temporal reasoning, reasoning about the knowledge of other agents, contextualized information, and the formalization of common sense.
- 418 **PHIL 418.**  
**Philosophy of Mathematics.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl). (BS).  
*PHIL 414.*  
 The epistemological and metaphysical problems peculiar to mathematics. Some use is made of mathematical logic.
- 419 **PHIL 419.**  
**Philosophy of the Arts.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl).  
*Not open to philosophy graduate students. No credit granted to those who have completed or are enrolled in PHIL 319. Will not satisfy 400-level course requirement for concentration in philosophy.*  
 Philosophical problems concerning the interpretation and evaluation of the arts, and the place of the arts in society.

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- 420 **PHIL 420.**  
**Philosophy of Science.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl). (BS).  
*PHIL 303 with a grade of C- or better, and either PHIL 345 or 383 with a grade of C- or better, or graduate standing (Prerequisites enforced at registration). II.*  
 Analysis of some of the basic concepts used to describe the structure of science such as explanation, prediction, law, cause, theory, confirmation, probability, observation, and measurement. Emphasis and content varies from year to year.
- 422 **PHIL 422.**  
**Philosophy of Physics.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl). (BS).  
*PHIL 180, 181, 196, 201, 202, 232, 234, 296 or 297 with at least a C-; or graduate standing (Prerequisites enforced at registration).*  
 A philosophical examination of the foundation problems of physical theory such as the concepts of statistical mechanics; the nature of basic laws of dynamics; and the problem of measurement in quantum mechanics.
- 423 **PHIL 423.**  
**Problems of Space and Time.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl). (BS).  
*One logic introduction and either one other philosophy course or 12 credits of science.*  
 An examination of philosophical problems associated with the nature of space and time. Both traditional philosophical questions and those suggested by classical and contemporary physics are discussed.
- 425 **PHIL 425.**  
**Philosophy of Biology.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl). (BS).  
*One course in philosophy or biology.*  
 This course introduces students to basic concepts in evolutionary biology and in the philosophy of science, and discusses the connections between the two disciplines.
- 429 **PHIL 429.**  
**Ethical Analysis.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 361 or 366 with at least a C-; or graduate standing (Prerequisites enforced at registration).*  
 A discussion of questions about the nature, object, forms, basis, and justification of morality and about the relation of morality to the good life.
- 430 **PHIL 430.**  
**Topics in Ethics.**  
 (3,2;3,2) : May be repeated for credit for a maximum of 6 credits.  
 (Excl).  
*PHIL 361 or 366 with a grade of C- or better, or graduate standing (Prerequisites enforced at registration).*  
 This course deals with a major topic or major topics in ethics. The topics vary, and sometimes will be the work of a single figure (e.g., Mill, Sidgwick, Rawls) or a small group of figures, and sometimes will be a school or a problem (e.g., utilitarianism, ethical relativism).
- 431 **PHIL 431.**  
**Normative Ethics.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 181, 196, 202, 232, 234 or 297 with at least a C-; or graduate standing (Prerequisites enforced at registration).*  
 An examination of normative theories such as egoism, utilitarianism, and social contractarianism; Possible justifications for such theories and their implications for economic policy, criminal law, etc. are also discussed.

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- 433 **PHIL 433.**  
**History of Ethics.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 361 or 366 with at least a C-; or graduate standing (Prerequisites enforced at registration).*  
 The history of ethical thinking in the Western tradition from the Greeks to 1930. Typically the course emphasizes only major figures, but sometimes concentrates on a particular period.
- 437 **PHIL 437 / MUSICOL 437.**  
**Philosophy of Music.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl).  
*An introductory course in philosophy; or previous course work in music.*  
 A philosophical investigation of the nature and significance of music. What is music and how is it important? Does music have "meaning"? What is musical expressiveness? Does music portray or represent emotions? What kinds of feelings does it evoke? What makes a musical performance not merely "correct" but good?
- 439 **PHIL 439.**  
**Aesthetics.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*One philosophy introduction.*  
 A theoretical examination of the nature of the institution of art, including an investigation of the concepts of works of art, aesthetic appreciation, aesthetic judgment, aesthetic value, representation and symbolism in art, expression, etc.
- 440 **PHIL 440.**  
**Philosophy of Film.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*One of the following: a philosophy course at the 300-level or above, once course in History of Art, or one course in Film and Video Studies.*  
 Since the invention of the Edison box, reflection on film has come from philosophy, criticism, sociology, history, and politics – but also from within films themselves. This course is about the philosophical character of films, relying both on the written word, and on films, for this exploration.
- 442 **PHIL 442.**  
**Topics in Political Philosophy.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 361 or 366 with at least a C-; or graduate standing (Prerequisites enforced at registration).*  
 Taking one of the following ideas as a central theme, this course examines fundamental philosophic issues related to human rights, liberty, democracy, justice, or alienation.
- 455 **PHIL 455.**  
**Contemporary Moral Problems.**  
 (4,2;4,2) : May not be repeated for credit.  
 (Excl).  
*Not open to graduate students in philosophy. No credit granted to those who have completed or are enrolled in PHIL 355. Does not meet the Philosophy Department's 400-level course requirement for Philosophy concentrators.*  
 The purpose of this course is to explore the moral issues confronting us in our daily lives and in our special disciplines. Topics discussed may include abortion, sex and sexual perversion, drugs, death and suicide, civil disobedience, punishment, pacifism, war, problems in medical ethics (eugenics, euthanasia, sanctity of life, organ transplants, defining death), environmental ethics, and the ethics of scientific research.

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- 458 **PHIL 458.**  
**Philosophy of Kant.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 389, 461, or 462, or permission of instructor, or concentration advisor.*  
 An intensive study of Kant's philosophy centered on *The Critique of Pure Reason*. Kant's major works in ethics and aesthetics may also be considered.
- 461 **PHIL 461.**  
**Philosophical Thought in the 17th Century.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 345, 383 or 389 with a grade of C- or better; and PHIL 361 or 366 with a grade of C- or better; or graduate standing (Prerequisites enforced at registration).*  
 Philosophical thought on the European continent in the seventeenth and early eighteenth centuries, including Descartes, Spinoza, and Leibniz.
- 462 **PHIL 462.**  
**18th-Century Philosophy: Philosophical Thought in the 18th Century.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*One of PHIL 345 or 383 or 389 with a minimum grade of C-; and one of PHIL 361 or 366 with a minimum grade of C- (Prerequisites enforced at registration).*  
 This course focuses on figures in 18th-century philosophy. Among the figures who might be covered are Locke, Berkeley, Hume, and Rousseau
- 463 **PHIL 463.**  
**Topics in the History of Philosophy.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl).  
*PHIL 388 or 389.*  
 An intensive critical study of selected texts and issues from the history of Western philosophy, dealing with material that is not usually covered in the department's regular basic offerings in the history of philosophy.
- 466 **PHIL 466.**  
**Topics in Continental Philosophy.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl).  
*One of PHIL 371, 375, 385, or 389.*  
 An intensive critical study of certain selected thinkers and topics in nineteenth and twentieth century continental philosophy.
- 477 **PHIL 477.**  
**Theory of Knowledge.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 345 or 383.*  
 A philosophical examination of problems concerning the nature and possibility of human knowledge. Topics may include the definition of knowledge, skepticism, sense perception and the external world, memory and knowledge of the past, knowledge of necessary truth, conditions of justified belief, and the objectivity of knowledge.
- 481 **PHIL 481.**  
**Metaphysics.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 345 or 383.*  
 An examination of some of the central problems in metaphysics such as appearance and reality, time, universals and particulars, causality and freedom, and the nature of metaphysical systems.

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- 482 **PHIL 482.**  
**Philosophy of Mind.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 345 or 383.*  
 Analysis of mental concepts such as consciousness, perception, and thinking. Consideration of philosophical problems concerning the mind such as personal identity, the relation of mind and body, and our knowledge of other minds. Attention is given to the bearing of psychology on these topics.
- 485 **PHIL 485.**  
**Philosophy of Action.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl).  
*Two courses in philosophy.*  
 This course investigates the nature of human action, including such issues as: reasons for acting, free will, moral responsibility, and intention.
- 486 **PHIL 486 / WOMENSTD 486.**  
**Topics in Feminist Philosophy.**  
 (3,3;3,3) : May not be repeated for credit.  
 (Excl).  
*Two courses in either Philosophy or Women's Studies.*  
 This course offers a philosophical examination of gender and feminism as these relate to topics of traditional philosophical concern. Topics to be studied may include feminist moral and political philosophy, feminist epistemology and philosophy of science, and feminist theories of the self, sexuality, and society.
- 492 **PHIL 492.**  
**Frege, Russell, and Wittgenstein.**  
 (3,2;3,2) : May not be repeated for credit.  
 (Excl).  
*PHIL 303 with a grade of C- or better; or graduate standing (Prerequisites enforced at registration).*  
 A study of the theories of meaning of Frege, Russell, and Wittgenstein, with reference to their metaphysical and epistemological implications.

### Graduate Courses

- 517 **PHIL 517.**  
**Topics in the History of Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A course on topics in the history of philosophy. Content varies by term and instructor.
- 530 **PHIL 530.**  
**Topics in Epistemology.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A course on topics in epistemology. Content varies by term and instructor.
- 550 **PHIL 550.**  
**Topics in Philosophy of Language.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A course on topics in the philosophy of language. Content varies by term and instructor.

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- 552 **PHIL 552 / LING 516.**  
**Pragmatics and Speech Act Theory.**  
 (3) : May not be repeated for credit.  
 (Excl).  
 This course is designed to familiarize students with the role of context, speaker's intentions, and non-indicative uses of language (e.g., questions and commands) in the theory of meaning and in linguistic communications more generally.
- 553 **PHIL 553 / STATS 553.**  
**Conceptual Foundations of Statistical Inference.**  
 (3-4;3-4) : May not be repeated for credit.  
 (Excl). (BS).  
*A course in statistical theory (STAT 405, PSYCH 613, ECON 405) and upperclass standing.*  
 This course focuses on conceptual issues in the foundations of probability theory and statistics. It is intended for graduate students with modest prior background in statistics. Probability theory is reviewed, and elementary statistical techniques will be discussed. Course evaluates the main philosophical interpretations of the probability calculus and resulting paradigms of statistical inference.
- 572 **PHIL 572.**  
**Topics in Meta-Ethics.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A course on topics in meta-ethics. Content varies by term and instructor.
- 576 **PHIL 576.**  
**Topics in Social-Political Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A course on topics in social-political philosophy. Content varies by term and instructor.
- 585 **PHIL 585.**  
**Topics in Aesthetics.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A course on topics in aesthetics. Content varies by term and instructor.
- 596 **PHIL 596.**  
**Reading Course.**  
 (2-3,2-3) : May not be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Consent of instructor required (Prerequisites enforced at registration). Graduate standing and permission of instructor.*  
 A faculty-directed independent study.
- 597 **PHIL 597.**  
**Proseminar.**  
 (6,6) : May not be repeated for credit.  
 (Excl).  
*Graduate standing and permission of instructor.*  
 The proseminar provides first-year graduate students with an opportunity to engage as a group with a range of issues.

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- 598 **PHIL 598.**  
**Independent Literature Survey.**  
 (3,3) : May not be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Consent of instructor required (Prerequisites enforced at registration). Graduate standing. Permission of instructor required.*  
 An independent literature survey in which a student reviews basic literature in a given area of philosophy and writes an extended bibliographic essay that sets forth a range of major positions within that area, indicates how various philosophers fit within this range of positions, and provides critical commentary on the positions, indicating, for example, the chief advantages and disadvantages of each, resulting in a critical bibliographic essay. Students must seek guidance from a faculty member in selecting a reasonable range of works for study. Students are encouraged to carry out such surveys during the summer months. If the ILS is to commence in the Spring/Summer or Fall, initial guidance should be sought the preceding April; if it is to commence in the Winter, initial guidance should be sought no later than the preceding December. The bibliographic essays will be evaluated by the faculty member and may, if appropriate, be certified for distribution
- 599 **PHIL 599.**  
**Candidacy Reading Course.**  
 (2-3,2-3) : May not be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Consent of instructor required (Prerequisites enforced at registration). Graduate standing and permission of instructor.*  
 A faculty-directed candidacy reading course in which a student – having already successfully completed an independent literature survey in the area of his or her projected dissertation – works toward identifying a specific thesis topic and writing a dissertation prospectus, and begins to write material which can be expected to represent some component of the dissertation. If the reading course is to commence in the Fall, students should arrange for faculty direction the preceding April; if it is to commence in the Winter, students should arrange for faculty direction no later than the preceding November. Faculty service in this capacity does not commit the student to asking the faculty member to serve on his or her dissertation committee, nor does it commit the faculty member to agreeing to do so. A student wishing to elect PHIL 599 must submit a proposed plan of study no later than the beginning of the term for which the course is elected. (Students are urged to consult with their advisors and prospective faculty sponsors as early as possible during the planning of their Reading Course). The plan must be accepted by the faculty sponsor of the course within a week of the beginning of the term. A plan will normally not be acceptable if it overlaps significantly with a departmental course. When the plan of study has been approved by the faculty sponsor, the student will ask the sponsor to sign a Reading Course Approval Form (available from the department office). The student's advisor must countersign the form. The course approval form will be placed in the student's file.
- 600 **PHIL 600.**  
**Advanced Studies.**  
 (3,2) : May not be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Consent of instructor required (Prerequisites enforced at registration). Graduate standing. Permission of instructor required.*  
 Independent study program arranged between instructor and student.
- 601 **PHIL 601.**  
**Seminar in Theory of Knowledge.**  
 (3-4,3-4) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A seminar on topics in the theory of knowledge. Content varies by term and instructor.
- 602 **PHIL 602.**  
**Seminar in Philosophy of Science.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A seminar on topics in the philosophy of science. Content varies by term and instructor.
- 605 **PHIL 605.**  
**Seminar in Logic.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 This course will examine some simple systems of reasoning with diagrams, and survey the philosophical issues that arise.

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- 607 **PHIL 607.**  
**Seminar in Metaphysics.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
A seminar on topics in metaphysics. Content varies by term and instructor.
- 609 **PHIL 609.**  
**Seminar In Philosophy of Mind.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
A seminar on topics in the philosophy of mind. Content varies by term and instructor.
- 610 **PHIL 610.**  
**Seminar in History of Philosophy.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
This seminar will focus on history of philosophy.
- 611 **PHIL 611.**  
**Seminar in Current Philosophy.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
A seminar on topics in current philosophy. Content varies by term and instructor.
- 615 **PHIL 615.**  
**Seminar in Philosophy of Language.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
A seminar on topics in the philosophy of language. Content varies by term and instructor.
- 616 **PHIL 616.**  
**Seminar in Philosophy of Mathematics.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
A seminar on topics in the philosophy of mathematics. Content varies by term and instructor.
- 618 **PHIL 618.**  
**Seminar in Aesthetics.**  
(3,2) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*  
A seminar on topics in aesthetics. Content varies by term and instructor.
- 621 **PHIL 621 / GREEK 825.**  
**Plato.**  
(3,3) : May not be repeated for credit.  
(Excl).  
*Graduate standing.*

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- 640 **PHIL 640.**  
**Seminar in Ethics.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A seminar on topics in ethics. Content varies by term and instructor.
- 677 **PHIL 677.**  
**Seminar in Social Philosophy.**  
 (3,2) : May not be repeated for credit.  
 (Excl).  
*Graduate standing.*  
 A seminar on topics in social philosophy. Content varies by term and instructor.
- 697 **PHIL 697.**  
**Candidacy Seminar.**  
 (2,2) : May not be repeated for credit.  
 (Excl).  
*Restricted to Philosophy Candidates and Philosophy Doctoral students nearing Candidacy. Graduate standing and permission of instructor.*  
 Seminar for Philosophy graduate students achieving candidacy.
- 990 **PHIL 990.**  
**Dissertation/Precandidate.**  
 (1-8,1-4) : May be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Election for dissertation work by doctoral student not yet admitted as a Candidate. Graduate standing and permission of instructor. This course has a grading basis of "S" or "U."*  
 Election for dissertation work by doctoral student not yet admitted as a Candidate.
- 993 **PHIL 993.**  
**Graduate Student Instructor Training Program.**  
 (1,1) : May not be repeated for credit.  
 (Excl).  
*Must have Teaching Assistant award. Graduate standing and permission of instructor. This course has a grading basis of "S" or "U."*  
 A seminar for all beginning graduate student instructors, consisting of a two day orientation before the term starts and periodic workshops/meetings during the Fall Term. Beginning graduate student instructors are required to register for this class.
- 995 **PHIL 995.**  
**Dissertation/Candidate.**  
 (8,4) : May be repeated for credit.  
 (Excl). (INDEPENDENT).  
*Graduate School authorization for admission as a doctoral Candidate (Prerequisites enforced at registration). Graduate standing and permission of instructor. This course has a grading basis of "S" or "U."*  
 Graduate School authorization for admission as a doctoral Candidate. N.B. The defense of the dissertation (the final oral examination) must be held under a full term Candidacy enrollment period.