PHIL 406. Philosophy of Language. 3 or 4 hours.
Intensive treatment of one or more topics, such as meaning and reference, communication, the structure of language, language and thought, and the relation of language to reality. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PHIL 102 or one 200- or 400-level logic course or PHIL 226 or consent of the instructor.

PHIL 410. Introduction to Formal Logic. 3 or 4 hours.
Review of predicate logic and of introductory set theory. The concept of a formal system. Notions of completeness and soundness. Introduction to Godel's first incompleteness theorem. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PHIL 102 or one 200-level logic course or PHIL 226 or consent of the instructor.

PHIL 412. Medieval Philosophy. 0-4 hours.
Study of selected philosophers such as Augustine, Boethius, Averroes, Maimonides, Aquinas, William of Ockham, Buridan, Suarez. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PHIL 220 or PHIL 221 or PHIL 420 or PHIL 421 or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

PHIL 423. Studies in Early Modern Philosophy. 3 or 4 hours.
Careful reading of selected works of one or more philosophers, 1600 to 1750, such as Descartes, Hobbes, Spinoza, Leibniz, Locke, Berkely, Hume, Reid and Rousseau. Course Information: 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) with approval. Approval to repeat course granted by the department. Prerequisite(s): PHIL 223 or PHIL 224 or 3 courses in philosophy or consent of the instructor.

PHIL 424. Kant. 3 or 4 hours.
Intensive study of Kant's metaphysics and theory of knowledge with main reading drawn from the Critique of Pure Reason. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PHIL 223 or PHIL 224 or 3 courses in philosophy or consent of the instructor.

PHIL 425. Studies in Nineteenth-Century Philosophy. 3 or 4 hours.
Careful reading of one or more post-Kantian philosophers such as Hegel, Schelling, Fichte, Schopenhauer, Marx, J.S. Mill, Kierkegaard, Nietzsche. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): One 200-level course in philosophy or consent of the instructor.

PHIL 426. Analysis and Logical Empiricism. 3 or 4 hours.
Developments in twentieth century philosophy with roots in the study of logic and language, such as logical atomism, logical empiricism, and contemporary analytic philosophy. Topics vary. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PHIL 220 or PHIL 221 or consent of the instructor.

PHIL 427. Continental Philosophy II: European Thought Since 1960. 3 or 4 hours.
European thought since 1960: Existential Marxism; Critical Theory; Structuralism, Post-Structuralism and Deconstruction. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PHIL 227 or consent of the instructor.

PHIL 428. Topics in Ancient Philosophy. 3 or 4 hours.
Careful reading of related works by Ancient Philosophers, such as Plato and Aristotle. Course Information: 3 undergraduate hours. 4 graduate hours. May be repeated if topics vary, with consent of the instructor. Students may register in more than one section per term. Prerequisite(s): PHIL 220 or PHIL 221; and junior standing or above.
PHIL 429. Special Studies in the History of Philosophy. 3 or 4 hours.
Advanced study of a historical theme. Course Information: 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) with approval. Approval to repeat course granted by the department. Prerequisite(s): One 200-level course in the history of philosophy or consent of the instructor.

PHIL 432. Topics in Ethics. 3 or 4 hours.
Selected topics in ethics. Course Information: 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) with approval. Approval to repeat course granted by the department. Prerequisite(s): One 200-level course in philosophy or consent of the instructor. Recommended background: Credit in a course in moral, social, or political philosophy.

PHIL 433. Topics in Social/Political Philosophy. 3 or 4 hours.
Selected topics in social and political philosophy. Course Information: 3 undergraduate hours. 4 graduate hours. May be repeated up to 1 time(s) with approval. Approval to repeat course granted by the department. Prerequisite(s): One 200-level course in philosophy or consent of the instructor. Recommended background: Credit in a course in moral, social, or political philosophy.

PHIL 441. Topics in Philosophy of Religion. 3 hours.
Intensive study of one or more selected topics concerning the philosophical aspects of basic religious beliefs and concepts. Course Information: Same as RELS 441. May be repeated for a maximum of 6 hours of credit if topic is different for each registration. Students may register for more than one section per term. Prerequisite(s): One 200-level course in philosophy (except 210) or consent of the instructor.

PHIL 484. Neuroscience I. 3 hours.
Neuroscience as an integrative discipline. Neuroanatomy of vertebrates, neural development, cellular neurobiology, action potential mechanisms, synaptic transmission and neuropharmacology. Course Information: Same as BIOS 484 and PSCH 484. Prerequisite(s): BIOS 286 or PSCH 262.

PHIL 485. Neuroscience II. 3 hours.
Integrative neuroscience, including sensory and motor systems; learning, memory, and language; pathology of nervous systems; philosophical perspectives, and modeling. Course Information: Same as BIOS 485 and PSCH 485. Prerequisite(s): BIOS 286 or PSCH 262.

PHIL 500. Writing in Philosophy. 4 hours.
Practice in philosophical writing including finding a thesis. Judicious choice of reading on the topic, outlining, and composing drafts as well as style, paragraphing, and making sentences. Required of all first year Ph.D. students. Course Information: Prerequisite(s): Graduate standing in philosophy.

PHIL 501. Seminar: Topics in Ancient Philosophy. 4 hours.
Intensive study of selected topics. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 503. Medieval Philosophy. 4 hours.
Intensive study of special topics in medieval philosophy. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 504. Seminar in Political Theory. 4 hours.
A graduate introduction to Enlightenment and post-Enlightenment theories of politics and society in the North Atlantic world. Course Information: Same as POLS 504. Prerequisite(s): Consent of the department required for nondegree graduate students.
PHIL 534. Philosophy of Mind. 4 hours.
Intensive study of selected topics. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 536. Epistemology. 4 hours.
Selected topics in the contemporary theory of knowledge. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 538. Philosophy of Language. 4 hours.
Intensive study of selected topics. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 540. Philosophy of Science. 4 hours.
Intensive study of selected topics. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 542. Philosophy of Special Sciences. 4 hours.
Intensive study of special topics in philosophy of physics, philosophy of biology, or other sciences. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 544. Philosophy of Logic. 4 hours.
Intensive study of selected topics. Course Information: May be repeated with approval. Approval to repeat course granted by the department. Students may register for more than one section per term when topics vary.

PHIL 546. Philosophy of Mathematics. 4 hours.
Philosophical foundations of mathematics. Course Information: May be repeated with approval. Approval to repeat course granted by the department.

PHIL 548. Mathematical Logic. 4 hours.
First order logic, completeness and incompleteness theorems, introduction to model theory and computability theory. Course Information: Same as MATH 502. Prerequisite(s): MATH 430 or consent of the instructor.

PHIL 553. Metamathematics II. 4 hours.
Incompleteness theorems, elementary recursion theory and proof theory, first and second order arithmetic. Course Information: Same as MATH 503. Prerequisite(s): MATH 502 or PHIL 562.

PHIL 555. Set Theory. 4 hours.
Naive and axiomatic set theory. Independence of the continuum hypothesis and the axiom of choice. Course Information: Same as MATH 504. Prerequisite(s): MATH 430 or MATH 502 or PHIL 562.

PHIL 557. Model Theory I. 4 hours.
Elementary embeddings, quantifier elimination, types, saturated and prime models, indiscernibles, Morley's Categoricity Theorem. Course Information: Same as MATH 506. Prerequisite(s): MATH 502 or PHIL 562.

PHIL 558. Model Theory II. 4 hours.
Stability theory; forking and independence, stable groups, geometric stability. Course Information: Same as MATH 507. Prerequisite(s): MATH 506 or PHIL 567.

PHIL 559. Advanced Topics in Logic. 4 hours.
Advanced topics in modern logic; e.g. large cardinals, infinitary logic, model theory of fields, o-minimality, Borel equivalence relations. Course Information: Same as MATH 512. May be repeated. Students may register in more than one section per term. Prerequisite(s): Approval of the department.

PHIL 560. Research Seminar. 4 hours.
A work-in-progress seminar for graduate students at the topical, prospectus, or dissertation level. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Completion of 10 of the 14 required courses for the Ph.D. in Philosophy.

PHIL 561. Teaching Methods in Philosophy. 1 hour.
Techniques and methods of teaching philosophy for philosophy teaching assistants. Includes visits to classes taught by students and feedback on teaching methods and performance. Course Information: Open only to Philosophy PhD students.

PHIL 563. Independent Research. 0-16 hours.
Topics and plan of study must be approved by the candidate's advisor and by the staff member who directs the work. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term.

PHIL 564. Independent Study. 1-4 hours.
Topics and plan of study must be approved by the candidate's advisor and by the staff member who directs the work. Course Information: May be repeated. Students may register in more than one section per term.

PHIL 565. Thesis Research. 0-16 hours.
Research for the Ph.D. thesis. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term.