

PHILOSOPHY

Emeriti (Professors): Fred Dretske, Solomon Feferman, Georg Kreisler, David S. Nivison, Patrick Suppes, James O. Urmson

Chair: Debra Satz

Director of Graduate Study: Michael Bratman

Director of Undergraduate Study: Chris Bobonich

Professors: Michael Bratman, John Etchemendy, Dagfinn Føllesdal (Autumn), Michael Friedman, Grigori Mints (on leave), Julius Moravcsik, John Perry, Kenneth Taylor (on leave), Johan van Benthem (Spring), Thomas Wasow, Allen Wood

Associate Professors: Lanier Anderson (on leave Autumn), Chris Bobonich, Mark Crimmins, Graciela De Pierris, Debra Satz

Assistant Professors: Nadeem Hussain (on leave), Agnieszka Jaworska, Krista Lawlor, Tamar Schapiro

Professor (Research): Rega Wood

Lecturers: David Hills, Thomas Ryckman, Scott Tanona

Courtesy Professors: Reviel Netz (on leave), Denis Phillips, Richard Rorty

Visiting Professors: Georges Rey, Krister Segerberg

Department Offices: Building 90

Mail Code: 94305-2155

Department Phone: (650)723-2547

Email: philosophy@csl.stanford.edu

Web Site: <http://www-philosophy.stanford.edu>

Courses given in Philosophy have the subject code PHIL. For a complete list of subject codes, see Appendix.

Philosophy concerns itself with fundamental problems. Some are abstract and deal with the nature of truth, justice, value, and knowledge; others are more concrete, and their study may help guide conduct or enhance understanding of other subjects. In addition, philosophy examines the efforts of past thinkers to understand the world and people's experience of it.

Although it may appear to be an assortment of different disciplines, there are features common to all philosophical enquiry. These include an emphasis on methods of reasoning and the way in which judgments are formed, on criticizing and organizing beliefs, and on the nature and role of fundamental concepts.

Students of almost any discipline can find something in philosophy which is relevant to their own specialties. In the sciences, it provides a framework within which the foundations and scope of a scientific theory can be studied, and it may even suggest directions for future development. Since philosophical ideas have had an important influence on human endeavors of all kinds, including artistic, political, and economic, students of the humanities should find their understanding deepened by acquaintance with philosophy.

Philosophy is an excellent major for those planning a career in law, medicine, or business. It provides analytical skills and a breadth of perspective helpful to those called upon to make decisions about their own conduct and the welfare of others. Philosophy majors who have carefully planned their undergraduate program have an excellent record of admission to professional and graduate schools.

The Special Program in the History and Philosophy of Science enables students to combine interests in science, history, and philosophy. Students interested in this program should see the special adviser.

The joint major in Philosophy and Religious Studies combines courses from both departments into a coherent theoretical pattern.

The Tanner Memorial Library of Philosophy contains an excellent working library and ideal conditions for study.

Graduate students and undergraduate majors in philosophy have formed associations for discussion of philosophical issues and the reading of papers by students, faculty, and visitors. These associations elect student representatives to department meetings.

UNDERGRADUATE PROGRAMS BACHELOR OF ARTS

There are two ways of majoring in philosophy: the General Program and the Special Program in the History and Philosophy of Science. A student completing either of these receives a B.A. degree in Philosophy. There is also a major program offered jointly with the Department of Religious Studies. To declare a major, a student should consult with the Director of Undergraduate Study and see the undergraduate student services administrator to be assigned an adviser and work out a coherent plan. The department strongly urges proficiency in at least one foreign language.

GENERAL PROGRAM

1. Course requirements, minimum 55 units:
 - a) Preparation for the major: an introductory course (under 100) and 80. (PHIL 80 should normally be taken no later than the first quarter after declaring the major.) Students taking both quarters of the Winter/Spring Philosophy Introduction to the Humanities (IHUM) track can count 5 units toward the introductory Philosophy requirement.
 - b) The core, 24 additional Philosophy units, as follows:
 - 1) Logic: one from 50 (formerly 57), 150 (formerly 159), 151 (formerly 160A), 154 (formerly 169)
 - 2) Philosophy of science: any course from 60, 61, 156, 163-168
 - 3) Moral and political philosophy: one from 170-173
 - 4) Metaphysics and epistemology: one from 180-189
 - 5) History of philosophy: 100 and 102 are required of each major
 - c) One undergraduate philosophy seminar from the 194 series.
 - d) Electives: courses numbered 10 or above, at least 13 units of which must be in courses numbered above 99.
2. Units for Tutorial, Directed Reading (PHIL 196, 197, 198), *The Dualist* (PHIL 198), Honors Seminar (PHIL 199), or affiliated courses may not be counted in the 55-unit requirement. No more than 10 units completed with grades of "satisfactory" and/or "credit" may be counted in the 55-unit requirement.
3. A maximum of 10 transfer units or two courses can be used for the departmental major. In general, transfer courses cannot be used to satisfy the five area requirements or the undergraduate seminar requirement. Students may not substitute transfer units for the PHIL 80 requirement.

SPECIAL PROGRAM IN HISTORY AND PHILOSOPHY OF SCIENCE

Undergraduates may major in Philosophy with a degree field in History and Philosophy of Science under the Department of Philosophy. Each participating student is assigned an adviser who approves the course of study. A total of 61 units are required for the sub-major, to be taken according to requirements 1 through 5 below. Substitutions for the listed courses are allowed only by written consent of the undergraduate adviser for History and Philosophy of Science. Students are encouraged to consider doing honors work with an emphasis on the history and philosophy of science. Interested students should see the description of the honors thesis in Philosophy and consult their advisers for further information.

1. Three science courses (for example, biology, chemistry, physics) for 12 units.
2. The following Philosophy (PHIL) core courses must be completed with a letter grade by the end of the junior year:
 - a) one from 50 (formerly 57), 150 (formerly 159), 151 (formerly 160A), 154 (formerly 169)
 - b) 60 or 61
 - c) 80
3. Three history of science courses.
4. Three philosophy of science courses, of which one must be PHIL 164.
5. Three additional courses related to the major, in philosophy or history, to be agreed on by the adviser.
6. At least six courses in the major must be completed at Stanford with a letter grade. Units for Tutorial, Directed Reading, or *The Dualist*

(196, 197, 198) may not be counted in the requirement. No more than 10 units completed with grades of “satisfactory” and/or “credit” may be counted in the requirement.

7. Transfer units must be approved in writing by the Director of Undergraduate Study at the time of declaring a major. Transfer courses are strictly limited when used to satisfy major requirements.

SPECIAL TRACK IN PHILOSOPHICAL AND LITERARY THOUGHT

Undergraduates may major in Philosophy with a special degree field in philosophy and literature. Students in this track take courses alongside students from other major departments which also have specialized tracks associated with the program for the study of philosophical and literary thought, with administrative staff in the DLCL. Each student in this track is assigned an adviser in Philosophy, and students’ schedules and overall course of study must be approved in writing by the adviser, and the Directors of Undergraduate Studies of Philosophy and of the program.

A total of 65 units must be completed for this track, including the following requirements.

1. Core requirements for the major in Philosophy, including
 - a) an introductory course
 - b) PHIL 80
 - c) the core distribution requirements listed in section 1b of the general program above
2. Gateway course in philosophy and literature (PHIL 81). This course should be taken as early as possible in the student’s career, normally in the sophomore year.
3. Three courses in a single national literature, chosen by the student in consultation with the adviser and the program director of undergraduate studies. This normally involves meeting the language proficiency requirements of the relevant literature department.
4. Electives within Philosophy beyond the core requirements totaling at least 5 units, and drawn from courses numbered 100 or higher.
5. Two upper division courses of special relevance to the study of philosophy and literature, as identified by the committee in charge of the program. A list of approved courses is available from the program director of undergraduate studies.
6. Capstone seminar in the PHIL 194 series.
7. Capstone seminar of relevance to the study of philosophy and literature, as approved by the program committee. In some cases, with approval of the Philosophy Director of Undergraduate Study and the program director of undergraduate studies, the same course may be used to meet requirements 6 and 7 simultaneously. In any case, the student’s choice of a capstone seminar must be approved in writing by the Philosophy Director of Undergraduate Study and the program director of undergraduate studies.

Students are encouraged to consider doing honors work in a topic related to philosophy and literature, either through the Philosophy honors program, or through Interdisciplinary Studies in the Humanities.

The following rules also apply to the special track:

1. Units for Honors Tutorial, Directed Reading (PHIL 196, 197, 198), *The Dualist* (PHIL 198), Honors Seminar (PHIL 199) may not be counted toward the 65-unit requirement. No more than 10 units with a grade of “satisfactory” or “credit” may be counted toward the unit requirement.
2. A maximum of 15 transfer units may be counted toward the major, at most 10 of which may substitute for courses within Philosophy. Transfer credits may not substitute for PHIL 80 or 81, and are approved as substitutes for the five area requirements or PHIL 194 only in exceptional cases.
3. Courses offered in other departments may be counted toward requirements 3, 5, and 7, but such courses, including affiliated courses, do not generally count toward the other requirements. In particular, such courses may not satisfy requirement 4.
4. Units devoted to meeting the language requirement are not counted toward the 65-unit requirement.

MINORS

A minor in Philosophy consists of at least 30 units of Philosophy courses satisfying the following conditions:

1. IHUM 23A and B (The Fate of Reason) may be counted for a maximum of 5 units.
2. At least 10 units must be from courses numbered 100 or above.
3. The 30 units must include one of:
 - a) a history of philosophy course numbered 100 or above
 - b) two quarters of Area 1 (only 5 of the 10 units can count towards 30-unit requirement)
4. One course from any two of the following three areas (PHIL):
 - a) Philosophy of science and logic: 60, 61, 156, 163-168; 50 (formerly 57), 150 (formerly 159), 151 (formerly 160A), 154 (formerly 169)
 - b) Moral and political philosophy: 20, 30, 170-172
 - c) Metaphysics and epistemology: 10, 80, 180-189
5. Units for tutorials, directed reading, and affiliated courses may not be counted.
6. Transfer units must be approved in writing by the Director of Undergraduate Study at the time of declaring. The number of transfer units is generally limited to a maximum of 10.
7. No more than 6 units completed with grades of “satisfactory” and/or “credit” count towards the 30-unit requirement.

Students must declare their intention to minor in Philosophy in a meeting with the Director of Undergraduate Study. This formal declaration must be made no later than the last day of the quarter two quarters before degree conferral. The Permission to Declare a Philosophy Minor (signed by the Director of Undergraduate Study) lists courses taken and to be taken to fulfill minor requirements. This permission is on file in the department office. Before graduation, a student’s record is checked to see that requirements have been fulfilled, and the results are reported to the University Registrar.

HONORS PROGRAM

Students who wish to undertake a more intensive and extensive program of study, including seminars and independent work, are invited to apply for the honors program during Winter Quarter of the junior year. Admission is selective on the basis of demonstrated ability in philosophy, including an average grade of at least ‘A-’ in a substantial number of philosophy courses and progress towards satisfying the requirements of the major.

With their application, candidates should submit an intended plan of study for the remainder of the junior and the senior years. It should include at least 5 units of Senior Tutorial (196) during Autumn and/or Winter Quarter(s) of the senior year. Students who are applying to Honors College may use the same application for philosophy honors. In the quarter preceding the tutorial, students should submit an essay proposal to the Philosophy undergraduate director and determine an adviser.

Students applying for honors should enroll in Junior Honors Seminar (199) during the Spring Quarter of the junior year.

The length of this essay may vary considerably depending on the problem and the approach; usually it falls somewhere between 7,500 and 12,500 words. The honors essay may use work in previous seminars and courses as a starting point, but it cannot be the same essay that has been used, or is being used, in some other class or seminar. It must be a substantially new and different piece of work reflecting work in the tutorials.

A completed draft of the essay is submitted to the adviser at the end of the Winter Quarter of the senior year. Any further revisions must be finished by the fifth full week of the Spring Quarter, when three copies of the essay are to be given to the undergraduate secretary. The honors essay is graded by the adviser together with a second reader, chosen by the adviser in consultation with the student. The student also provides an oral defense of the thesis at a meeting with the adviser and second reader. The essay must receive a grade of ‘A-’ or better for the student to receive honors.

The honors tutorials represent units in addition to the 55-unit requirement.

The Department of Philosophy cooperates with the honors component of the “Interdisciplinary Studies in Humanities” as described in that section of this bulletin.

JOINT MAJOR IN PHILOSOPHY AND RELIGIOUS STUDIES

The joint major in Philosophy and Religious Studies consists of 60 units of course work with approximately one third each in the philosophy core, the religious studies core, and either the general major or the special concentration. Affiliated courses cannot be used to satisfy this requirement.

No courses in either the philosophy or religious studies core may be taken satisfactory/no credit or credit/no credit.

In general, transfer units cannot be used to satisfy the core requirements. Transfer units and substitutions must be approved by the director of undergraduate studies in the appropriate department.

CORE REQUIREMENTS

1. Philosophy (PHIL) courses:
 - a) 80
 - b) 16 units, including at least one Philosophy course from each of the following areas:
 - 1) Logic and philosophy of science: 50 (formerly 57), 60, 61, 150 (formerly 159), 151 (formerly 160A), 154 (formerly 169), 156, 162-168
 - 2) Ethics and value theory: 170-173
 - 3) Epistemology, metaphysics, and philosophy of language: 180-189
 - 4) History of philosophy: 100-103
2. Religious Studies courses: 20 units, including at least two courses in diverse religious traditions (for example, an Eastern and a Western or a literate and a preliterate tradition) and including at least one seminar.

General Major Requirements—Five additional courses (approximately 20 units) divided between the two departments. No more than 5 of these units may come from courses numbered under 99 in either department. Each student must also take at least one undergraduate seminar in religious studies and one undergraduate seminar in philosophy.

Special Concentration—With the aid of an adviser, students pursue a specialized form of inquiry in which the combined departments have strength; for example, American philosophy and religious thought, philosophical and religious theories of human nature and action, philosophy of religion. Courses for this concentration must be approved in writing by the adviser.

Directed Reading and Satisfactory/No Credit Units—Units of directed reading for fulfilling requirements of the joint major are allowed only with special permission. No more than 10 units of work with a grade of 'satisfactory' count toward the joint major.

HONORS PROGRAM

Students pursuing a joint major in Philosophy and Religious Studies may also apply for honors by following the procedure for honors in either of the departments.

COTERMINAL BACHELOR'S AND MASTER'S DEGREES

It is possible to earn an M.A. in Philosophy while earning a B.A. or B.S. This can usually be done by the end of the fifth undergraduate year, although a student whose degree is not in philosophy may require an additional year. Standards for admission to, and completion of, this program are the same as for M.A. applicants who already have the bachelor's degree when matriculating. Applicants for the coterminal program are not, however, required to take the Graduate Record Exam. Information about applying is available from Graduate Admissions in the Registrar's Office. The application deadline for Philosophy is January 14.

For University coterminal degree program rules and University application forms, see <http://registrar.stanford.edu/publications/#Coterm>.

GRADUATE PROGRAMS

The department is prepared to direct and supervise individual study and research to supplement instruction offered in the courses listed below. In addition, advanced seminars not listed in the catalog are frequently organized in response to student interest. Candidates for advanced degrees are urged to discuss their entire program of study with their department advisers as early as possible.

Applications to graduate programs in the Department of Philosophy can be obtained from Graduate Admissions, the Registrar's Office. Applicants must take the Graduate Record Examination by October of the year the application is submitted.

MASTER OF ARTS

University requirements for the M.A. are discussed in the "Graduate Degrees" section of this bulletin.

Four programs lead to the M.A. in Philosophy. One is a general program providing a grounding in all branches of the subject. The others provide special training in one branch.

Admissions—All prospective master's students, including those currently enrolled in other Stanford programs, must apply for admission to the program. The application deadline is March 29 of the academic year preceding entry into the program. In exceptional circumstances, consideration may be given to applications received after the March 29 deadline but before April 30. No fellowships are available. Entering students must meet with the director of the master's program and have their advisers' approval, in writing, of program proposals. The master's program should not be considered a stepping stone to the doctoral program; these two programs are separate and distinct.

Unit Requirements—Each program requires a minimum of 45 units in philosophy. Students in a special program may be allowed or required to replace up to 9 units of philosophy by 9 units in the field of specialization. Although the requirements for the M.A. are designed so that a student with the equivalent of a strong undergraduate philosophy major at Stanford might complete them in one year, most students need longer. Students should also keep in mind that although 45 units is the minimum required by the University, quite often more units are necessary to complete department requirements. Up to 6 units of directed reading in philosophy may be allowed. There is no thesis requirement, but an optional master's thesis or project, upon faculty approval, may count as the equivalent of up to 8 units. A special program may require knowledge of a foreign language. At least 45 units in courses numbered 100 or above must be completed with a grade of 'B-' or better at Stanford. Students are reminded of the University requirements for advanced degrees, and particularly of the fact that for the M.A., students must complete three full quarters as measured by tuition payment.

GENERAL PROGRAM

The General Program requires a minimum of 45 units in Philosophy courses numbered above 99. These courses must be taken for a letter grade and the student must receive at least a 'B-' in the course. Courses taken to satisfy the undergraduate core or affiliated courses may not be counted in the 45 units. The requirement has three parts:

1. *Undergraduate Core*: students must have when they enter, or complete early in their program, the following undergraduate courses (students entering from other institutions should establish equivalent requirements with a master's adviser upon arrival or earlier):
 - a) Logic: 50 (formerly 57), 150 (formerly 159), or 151 (formerly 160A)
 - b) Philosophy of science: any course from 60, 61, 163-167
 - c) Moral and political philosophy: one from 170-173
 - d) Metaphysics and epistemology: one from 80, 180-189
 - e) History of philosophy: two history of philosophy courses numbered 100 or above
2. *Graduate Core*: students must take at least one course numbered over 105 from three of the following five areas (courses used to satisfy the undergraduate core cannot also be counted toward satisfaction of the graduate core). Crosslisted and other courses taught outside the Department of Philosophy do not count towards satisfaction of the core.

- a) Logic and semantics
- b) Philosophy of science and history of science
- c) Ethics, value theory, and moral and political philosophy
- d) Metaphysics, epistemology, and philosophy of language
- e) History of philosophy

Each master's candidate must take at least two courses numbered above 200 (these cannot be graduate sections of undergraduate courses). One may be a graduate core seminar (360, 370, 380, 381), but no student is admitted to a core seminar before completing undergraduate requirements in the area of the seminar and securing the approval of the instructor.

- 3. Specialization: students must take at least three courses numbered over 105 in one of the five areas.

SPECIAL PROGRAM IN SYMBOLIC SYSTEMS

Students should have the equivalent of the Stanford undergraduate major in Symbolic Systems. Students who have a strong major in one of the basic SSP disciplines (philosophy, psychology, linguistics, computer science) may be admitted, but are required to do a substantial part of the undergraduate SSP core in each of the other basic SSP fields. This must include the following three philosophy courses or their equivalents: 80; 151 (formerly 160A); and one from 181, 183, 184, 186. This work does not count towards the 45-unit requirement.

COURSE REQUIREMENTS

- 1. Four courses in philosophy at the graduate level (numbered 200 or above), including courses from three of the following five areas:
 - a) Philosophy of language
 - b) Logic
 - c) Philosophy of mind
 - d) Metaphysics and epistemology
 - e) Philosophy of science

At most two of the four courses may be graduate sections of undergraduate courses numbered 100 or higher.

- 2. Three courses numbered 100 or higher from outside Philosophy, chosen in consultation with an adviser. These courses should be from two of the following four areas:
 - a) Psychology
 - b) Linguistics
 - c) Computer Science
 - d) Education

Remaining courses are chosen in consultation with and approved by an adviser.

SPECIAL PROGRAM IN THE PHILOSOPHY OF LANGUAGE

Admission is limited to students with substantial preparation in philosophy or linguistics. Those whose primary preparation has been in linguistics may be required to satisfy all or part of the undergraduate core requirements as described in the General Program. Those whose preparation is primarily in philosophy may be required to take additional courses in linguistics.

COURSE REQUIREMENTS

- 1. Philosophy of language: two approved courses in the philosophy of language numbered 180 or higher.
- 2. Syntactic theory and generative grammar: 384 and LINGUIST 231.
- 3. Logic: at least two approved courses numbered 151 (formerly 160A) or higher.
- 4. An approved graduate-level course in mathematical linguistics or automata theory.

DOCTOR OF PHILOSOPHY

The University's basic requirements for the Ph.D. degree (residence, dissertation, examination, and so on) are discussed in the "Graduate Degrees" section of this bulletin. The requirements detailed here are department requirements.

All courses used to satisfy proficiency requirements must be passed with a letter grade of 'B-' or better (no satisfactory/no credit).

At the end of each year, the department reviews the progress of each student to determine whether the student is making satisfactory progress, and on that basis to make decisions about probationary status and termination from the program where appropriate.

Any student in one of the Ph.D. programs may apply for the M.A. when all University and department requirements have been met.

PROFICIENCY REQUIREMENTS

- 1. *Course requirements*, to be completed during the first two years:
 - a) four core graduate courses and seminars in philosophy of language (381); philosophy of mind, metaphysics, and epistemology (380); value theory (370); and philosophy of science (360)
 - b) three of the four items listed below:
 - 1) three history courses, each consisting of an approved graduate-level course in the history of philosophy. Courses satisfying this seven-out-of-eight requirement must include at least one history course in ancient philosophy, one in modern.
 - 2) PHIL 151 (formerly 160A)
 - 3) PHIL 150 (formerly 159) or the equivalent
 - 4) A total of at least 49 units of course work in the Department of Philosophy numbered above 110, but not including Teaching Methods (PHIL 239) or affiliated courses. Units of Individual Directed Reading (PHIL 240) may be included only with the approval of the Director of Graduate Study.
- 2. *Teaching Assistance*: a minimum of five quarters of teaching assistance at 25 percent time, usually during the second and third years.
- 3. *Candidacy*: to continue in the Ph.D. program, each student must be approved for candidacy during the sixth academic quarter (normally the Spring Quarter of the student's second year). Students may be approved for candidacy on a conditional basis if they have only one or two outstanding deficiencies, but are not officially advanced to candidacy until these deficiencies have been removed. Approval for candidacy indicates that, in the department's judgment, the student can successfully complete the Ph.D. In reaching this judgment, the department considers the overall quality of the student's work during the first six quarters and the student's success in fulfilling course requirements.
- 4. During the third year of graduate study, and after advancement to candidacy, a Ph.D. student should successfully complete at least three graduate-level courses/seminars, at least two of which must be in philosophy. Courses required for candidacy are not counted toward satisfaction of this requirement. Choice of courses/seminars outside philosophy is determined in consultation with a student's adviser.
- 5. During the summer of their second year, students are required to attend a dissertation development seminar given by the department.
- 6. Dissertation work and defense: the third and fourth (and sometimes fifth) years are devoted to dissertation work.
 - a) *Dissertation Proposal*: by Spring Quarter of the third year, students select a dissertation topic, a reading committee, and some possible thesis relative to that topic. The topic and thesis should be sketched in a proposal of three to five pages, plus a detailed, annotated bibliography indicating familiarity with the relevant literature. The proposal should be approved by the reading committee before the meeting on graduate student progress late in Spring Quarter.
 - b) *Departmental Oral*: during Autumn Quarter of the fourth year, students take an oral examination, called the "Departmental Oral," based on at least 30 pages of written work, in addition to the proposal. The aim of the exam is to help the student arrive at an acceptable plan for the dissertation and to make sure that the student, thesis, topic, and adviser make a reasonable fit. In cases where such an exam is deemed inappropriate by the reading committee, the student may be exempted by filing a petition with the Director of Graduate Study, signed by the student and the members of the reading committee.
 - c) *Fourth-Year Colloquium*: no later than the Spring Quarter of the fourth year, students present a research paper in a seminar open to the entire department. This paper should be on an aspect of the student's dissertation research.

- d) *University Oral Exam*: Ph.D. students must submit a completed draft of the dissertation to the three-person reading committee at least one month before the student expects to defend the thesis in the University oral exam. If the student is given permission to go forward, the University orals take place approximately two weeks later. A portion of the exam consists of a student presentation based on the dissertation and is open to the public. A closed question period follows. If the draft is ready by Autumn Quarter of the fourth year, the student can request that the University oral count as the department oral.

SPECIAL GRADUATE PROGRAMS

The department recognizes that some students may need to spend a large amount of time preparing themselves in some other discipline related to their philosophical goals, or in advanced preparation in some area within philosophy. In such circumstances, the department may be willing to waive some of the Ph.D. requirements. Such an exemption is not automatic; a program must be worked out with an adviser and submitted to the department some time in the student's first year. This proposal must be in writing and must include:

1. The areas to be exempted (see below).
2. A program of additional courses and seminars in the special area (usually at least 12 units).
3. A justification of the program that considers both intellectual coherence and the student's goals.

The department believes there is plenty of room for normal specialization within the program as it stands, and that all students specialize to some extent. Thus, the intent is not to exempt courses on a one-to-one basis, but only to grant exemptions when a student plans an extensive and intensive study of some relevant area.

Special program students may be exempted from no more than two of the following:

1. One additional item from the items listed above in requirement 1(a)
2. PHIL 150 (formerly 159); but in this case, a student must take PHIL 50 (formerly 57)
3. The breadth requirement

If a student's special program involves substantial course work outside of philosophy then, with the approval of the adviser, the student may petition the department to reduce requirement 1(d) (the Philosophy unit requirement for the first two years). Normally this requirement is not reduced below 32 units.

PH.D. MINOR

To obtain a Ph.D. minor in Philosophy, students must follow these procedures:

1. Consult with the Director of Graduate Study to establish eligibility, and select a suitable adviser.
2. Give to the department academic assistant a signed copy of the program of study (designed with the adviser) which offers:
 - a) 30 units of courses in the Department of Philosophy with a letter grade of 'B-' or better in each course. No more than 3 units of directed reading may be counted in the 30-unit requirement.
 - b) At least one course or seminar numbered over 99 to be taken in each of these five areas:
 - 1) Logic
 - 2) Philosophy of science
 - 3) Ethics, value, theory, and moral and political philosophy
 - 4) Metaphysics, epistemology, and philosophy of language
 - 5) History of philosophy
 - c) Two additional courses numbered over 199 to be taken in one of those (b) five areas.
3. A faculty member from the Department of Philosophy (usually the student's adviser) serves on the student's doctoral oral examination committee and may request that up to one third of this examination be devoted to the minor subject.
4. Paperwork for the minor must be submitted to the department office before beginning the program.

INTERDEPARTMENTAL PROGRAMS

GRADUATE PROGRAM IN HUMANITIES

The Department of Philosophy also participates in the Graduate Program in Humanities leading to the joint Ph.D. degree in Philosophy and Humanities. It is described in the "Interdisciplinary Studies in Humanities" section of this bulletin.

GRADUATE PROGRAM IN COGNITIVE SCIENCE

Philosophy participates with the departments of Computer Science, Linguistics, and Psychology in an interdisciplinary program in Cognitive Science. It is intended to provide an interdisciplinary education, as well as a deeper concentration in philosophy, and is open to doctoral students. Students who complete the requirements within Philosophy and the Cognitive Science requirements receive a special designation in Cognitive Science along with the Ph.D. in Philosophy. To receive this field designation, students must complete 30 units of approved courses, 18 of which must be taken in two disciplines outside of philosophy. The list of approved courses can be obtained from the Cognitive Science program located in the Department of Psychology.

SPECIAL TRACK IN PHILOSOPHY AND SYMBOLIC SYSTEMS

Students interested in interdisciplinary work relating philosophy to artificial intelligence, cognitive science, computer science, linguistics, or logic may pursue a degree in this program.

Prerequisites—Ideally, admitted students have covered the equivalent of the core of the undergraduate Symbolic Systems Program requirements as described in that section of this bulletin, including courses in artificial intelligence (AI), cognitive science, linguistics, logic, and philosophy. The graduate program is designed with this background in mind. Students missing part of this background may need additional course work. Aside from the required course work below, the Ph.D. requirements are the same as for the regular program.

Courses of Study—The program consists of two years of courses and two years of dissertation work. Students are required to take the following courses in the first two years:

1. Six Philosophy courses:
 - a) two of the following: 360, 370, 380, 381
 - b) one course in the history of modern philosophy
 - c) two quarters of graduate logic courses from among 350A, 351A, 352A, 353A
 - d) at least one additional seminar in the general area of symbolic systems: e.g., 206, 286, 382, 386, 389
2. Five cognitive science and computer science courses:
 - a) at least two courses in cognitive psychology
 - b) two or three graduate courses in computer science, at least one in AI and one in theory
3. Three linguistics and computational linguistics courses:
 - a) graduate courses on natural language that focus on two of the following areas: phonetics and phonology, syntax, semantics, or pragmatics
 - b) one graduate course in computational linguistics, typically LINGUIST 239
4. At least two additional graduate seminars at a more advanced level, in the general area of the program, independent of department. These would typically be in the area of the student's proposed dissertation project.

The requirements for the third year are the same as for other third-year graduate students in philosophy: a dissertation proposal, creation of a dissertation committee, and at least three approved graduate courses and seminars. The dissertation committee must include at least one member of the Department of Philosophy and one member of the Program in Symbolic Systems outside the Department of Philosophy.

The requirement for the fourth year is the same as for the other graduate students in philosophy: a department oral on an initial draft of part of the dissertation, a fourth year colloquium, and a University oral exam when the dissertation is essentially complete.

JOINT PROGRAM IN ANCIENT PHILOSOPHY

This program is jointly administered by the Departments of Classics and Philosophy and is overseen by a joint committee composed of members of both departments. It provides students with the training, specialist skills, and knowledge needed for research and teaching in ancient philosophy while producing scholars who are fully trained as either philosophers (with a strong specialization in ancient languages and philology) or classicists (with a concentration in philosophy).

Students are admitted to the program by either department. Graduate students admitted by the Philosophy department receive their Ph.D. from the Philosophy department; those admitted by the Classics department receive their Ph.D. from the Classics department. For Philosophy graduate students, this program provides training in classical languages, literature, culture, and history. For Classics graduate students, this program provides training in the history of philosophy and in contemporary philosophy.

Each student in the program is advised by a committee consisting of one professor in each department.

Requirements for Philosophy Graduate Students:

These are the same as the proficiency requirements for the Ph.D. in Philosophy with the following exceptions:

1. The student is exempted from the breadth requirement.
2. If the student has already taken two courses in modern philosophy, he/she does not need to take a course in modern philosophy to satisfy proficiency requirement 1.a.2.

One year of Greek is a requirement for admission to the program. If students have had a year of Latin, they are required to take 3 courses in second- or third-year Greek or Latin (at least one of which must be in Latin). If they have not had a year of Latin, they are then required to complete a year of Latin, and take two courses in second- or third-year Greek or Latin.

Students are also required to take at least three courses in ancient philosophy at the 200 level or above (one of which must be in the Classics department and two of which must be in the Philosophy department).

GRADUATE DEGREES IN HISTORY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY

See the description in the “History and Philosophy of Science and Technology” section of this bulletin.

GRADUATE FELLOWSHIPS AND ASSISTANTSHIPS

A limited amount of fellowship support is available for Ph.D. students in philosophy. Students request aid by checking the appropriate box on the application form. Details of this program may be obtained from the department. Note that a condition of financial aid may be teaching assistance that goes beyond the Ph.D. requirement.

COURSES

WIM indicates that the course satisfies the Writing in the Major requirements. See the quarterly *Time Schedule* for revised listings.

INTRODUCTION TO THE HUMANITIES (IHUM)

The following Introduction to the Humanities courses are taught by Philosophy department faculty members. IHUM courses are typically available only to freshmen seeking to fulfill GER:1 requirements; see the “Introduction to the Humanities” section of this bulletin for further information. Prospective majors in Philosophy are advised to consider satisfying their GER:1b,c requirements by registering for the following IHUM courses.

IHUM 23A,B. The Fate of Reason—The fate of Socrates’ proposal that answers to problems about what to believe and how to act should be guided by reason. The fate of reason in different cultural traditions. The basis for commitments about how to live, God, the world, and people’s place within it. The power of reason to improve lives versus the notion that rational principles demand too much or are insufficient to reach important truths. GER:1b,1c (two quarter sequence)

IHUM 23A. 5 units, Win (Bobonich)

IHUM 23B. 5 units, Spr (A. Wood)

INTRODUCTORY

These courses acquaint the student with some of the most important problems, positions, and methods in Philosophy. Some are designed to give general preparation for further work in Philosophy. Some apply the philosopher’s approach to particular problems and subjects encountered in other areas of study.

PHIL 10. God, Self, and World: An Introduction to Philosophy—Traditional philosophical problems including the existence of God, how and what one can know about the world, how to understand the nature of the mind and its relation to the body, and whether people have free will. Paradoxes. Readings include classical and contemporary texts. GER:3a
5 units, Aut (Perry)

PHIL 11N. Skepticism—Stanford Introductory Seminar. Preference to freshmen. Historical and contemporary philosophical perspectives on the limits of human knowledge of a mind-independent world and causal laws of nature. The nature and possibility of a priori knowledge. GER:3a
3 units, Aut (De Pierris)

PHIL 12N. Introduction to Metaphysics—Stanford Introductory Seminar. Preference to freshmen. Metaphysics via Plato. GER:3a
3 units, Win (Moravcsik)

PHIL 15N. Paradoxes—Stanford Introductory Seminar. Preference to freshmen. Introduction to philosophical thinking through paradoxes about logic, meaning, rationality, and infinity. GER:3a
3 units, Aut (Crimmins)

PHIL 16N. Values and Objectivity—Stanford Introductory Seminar. Preference to freshmen. What is meant by the objectivity of beliefs and attitudes? Can the commitment of science to truthfulness be free of particular perspectives and subjective influence? Is objectivity a matter of degree relative to the kind of inquiry undertaken? Readings from philosophy of science, moral philosophy, and welfare economics. GER:3a
3 units, Win (Ryckman)

PHIL 20. Introduction to Moral Philosophy—(Same as ETHICSOC 20.) What is the basis of moral judgments? What makes right actions right, and wrong actions wrong? What makes a state of affairs good or worth promoting? Answers to classic questions in ethics through the works of traditional and contemporary authors. GER:3a
5 units, Aut (Schapiro)

PHIL 30. Introduction to Political Philosophy—(Enroll in POLISCI 3.)
5 units, Win (Stone)

PHIL 50. Introductory Logic—(Formerly 57.) Propositional and predicate logic; emphasis is on translating English sentences into logical symbols and constructing derivations of valid arguments. GER:2c
4 units, Win, Spr (Barker-Plummer)

PHIL 60. Introduction to Philosophy of Science—(Same as HPS 60.) Survey of 20th-century views on the nature of scientific knowledge. Logical positivism and Popper; the problem of induction; Kuhn, Feyerabend, and radical philosophies of science; subsequent attempts to rebuild moderate empiricist and realist positions. GER:3a
5 units, Spr (Tanona)

PHIL 61. Philosophy and the Scientific Revolution—(Same as HPS 61.) The relationship between the scientific revolution of the 17th century that resulted in the birth of modern science and the contemporaneous intellectual developments constituting the birth of modern philosophy. Readings focus on Galileo and Descartes. GER:3a
5 units, Aut (Friedman)

PHIL 77. Methodology in Ethics: Translating Theory into Practice—(Same as ETHICSOC 77.) Ideally, social policies are informed by ethical thought and reflection, but doing good in the world requires the active translation of moral theory and political philosophy into action. What kinds of empirical data are relevant to social decision making, and how should those data be collected, evaluated, and integrated into normative analysis? What assumptions about human nature are in play?

How should diverse cultural values be addressed? Case studies from biomedical science, business, and government. Required community service internship.

5 units, Spr (Staff)

PHIL 78. Medical Ethics—(Same as ETHICSOC 78.) Introduction to moral reasoning and its application to problems in medicine: informed consent, the requirements and limits of respect for patients' autonomy, surrogate decision making, euthanasia and physician-assisted suicide, and abortion. GER:3a,4c

4 units, Spr (Jaworska)

PHIL 80. Mind, Matter, and Meaning—Central topics in philosophy: free will and determinism, the relation of mind and body, and whether machines can think. Emphasis is on analytical writing skills. Prerequisite: introductory philosophy course. GER:3a,WIM

5 units, Aut (Lawlor), Spr (Crimmins)

PHIL 81. Philosophy and Literature Gateway—(Same as FRENGEN 181, ITALGEN 181.) Required gateway course for Philosophical and Literary Thought track offered through Philosophy and DLCL. Introduction to major problems at the intersection of philosophy and literature. Issues may include authorship, selfhood, truth and fiction, the importance of literary form to philosophical works, and the ethical significance of literary works. Texts include philosophical analyses of literature, works of imaginative literature, and works of both philosophical and literary significance. Authors may include Plato, Montaigne, Nietzsche, Borges, Beckett, Barthes, Foucault, Nussbaum, Walton, Nehamas, Pavel, and Pippin. GER:3a

4 units, Win (Landy, Anderson)

HISTORY OF PHILOSOPHY

100-103 are surveys of important figures and movements in Western philosophy. Other courses cover particular periods, movements, and figures in the history of philosophy. Prospective Philosophy majors should take as many as possible during the sophomore year.

PHIL 100. Greek Philosophy—Greek philosophical thought, covering Socrates, Plato, Aristotle, and the Hellenistic schools (the Epicureans, the Stoics, and the Skeptics). Topics: the nature of the soul, virtue and happiness, knowledge, and reality. GER:3a

4 units, Aut (Bobonich)

PHIL 102. Modern Philosophy, Descartes to Kant—Major figures in early modern philosophy in epistemology, metaphysics, and philosophy of mind. Writings by Descartes, Locke, Leibniz, Berkeley, Hume, and Kant. GER:3a

4 units, Win (De Pierris)

PHIL 103. 19th-Century Philosophy—Focus is on ethics and the philosophy of history. Works include Mill's *Utilitarianism*, Hegel's *The Philosophy of World History*, Marx's *Economic and Philosophic Manuscripts*, Kierkegaard's *The Sickness Unto Death*, and Nietzsche's *On the Genealogy of Morals*. GER:3a

4 units, Spr (A. Wood)

PHIL 107/207. Plato's Ontology and Mathematics—(Graduate students register for 207.) Plato's theories on parts of reality.

4 units, Win (Moravcsik)

PHIL 108/208. Plato's Ethics—(Graduate students register for 208; formerly 116/216.) Plato's ethics compared to modern ethics. Study of the human ideal.

4 units, Spr (Moravcsik)

PHIL 115/215. Problems in Medieval Philosophy: Scholastic Background to Kant—(Graduate students register for 215.) Aquinas, Baumgarten, and Kant on psychology, cosmology, and theology. What is the nature of the soul for Aquinas, and how is his answer related to Baumgarten? What is the origin of the world according to Aquinas, and how does Kant's approach differ? Can the existence of God be proven, and how does Baumgarten's answer depend on Aquinas? GER:3a

3-4 units, Win (R. Wood)

PHIL 117/217. Recovering the Original Aristotle—(Graduate students register for 217.) Did Aristotle have a coherent notion of substantiality, and if so, what key properties must substances have? The implications of Aristotle's theory of categories for his theories of substance.

4 units (Moravcsik) not given 2004-05

PHIL 120/220. Hume—(Graduate students register for 220.) Hume's theoretical philosophy, in particular, skepticism and naturalism, the theory of ideas and belief, space and time, causation and necessity, induction and laws of nature, miracles, a priori reasoning, the external world, and the identity of the self. GER:3a

4 units, Win (De Pierris)

PHIL 121/221. Descartes—(Graduate students register for PHIL 221.) Descartes's philosophical writings on rules for the direction of the mind, method, innate ideas and ideas of the senses, mind, God, eternal truths, and the material world. GER:3a

4 units, Aut (De Pierris)

PHIL 122/222. Hegel's Philosophy of Right—(Graduate students register for 222.) Introduction to Hegel's philosophy through his last major work, *Elements of the Philosophy of Right* (1821). Emphasis is on his philosophy of natural rights, morality, society, politics, and history. GER:3a

4 units (A. Wood) not given 2004-05

PHIL 125/225. Kant's First Critique—(Graduate students register for 225.) The founding work of Kant's critical philosophy, emphasizing contributions to metaphysics and epistemology and the attempt to limit metaphysics to objects of possible experience. Prerequisite: course in systematic issues in metaphysics or epistemology, or the history of modern philosophy. GER:3a

4 units, Spr (Anderson)

PHIL 126/226. Kant's Ethical Theory—(Graduate students register for 226.) Kant's moral philosophy, based primarily on the *Groundwork of Metaphysics of Morals*, the *Critique of Practical Reason*, and *The Metaphysics of Morals*. GER:3a

4 units (Schapiro) not given 2004-05

PHIL 127/227. Kant's Critique of the Power of Judgment—(Graduate students register for 227.) Kant's third and final critique investigates the transcendental grounds of aesthetic taste and the use of teleology in the study of nature, with the aim of unifying theoretical and practical reason in the critical system. The analytic of the beautiful, the role of taste and artworks in human life, and the methodology of teleological judgment which is to unite the teleology of nature and morals into a single system of practical reason. GER:3a

4 units, Win (A. Wood)

PHIL 132/232. Existentialism—(Graduate students register for 232.) The existentialist preoccupation with human freedom. What constitutes authentic individuality? What is one's relation to the divine? How can one live a meaningful life? What is the significance of death? A rethinking of the traditional problem of freedom and determinism in readings from Rousseau, Kierkegaard, and Nietzsche, and the extension of these ideas by Sartre, Beauvoir, and Camus, including their social and political consequences in light of 20th-century fascism and feminism. GER:3a

4 units (Anderson) not given 2004-05

PHIL 133/233. Major Figures in 20th-Century Philosophy—(Graduate students register for 233.) Husserl, Heidegger, Sartre, Gadamer, Wittgenstein, Quine, Davidson, and Rawls. Readings from their central writings. GER:3a

4 units (Føllesdal) not given 2004-05

PHIL 134/234. Phenomenology, Existentialism, and Hermeneutics—(Graduate students register for 234.) Husserl's phenomenology as a key to understanding contemporary continental philosophy including Heidegger's and Sartre's existentialisms, Gadamer's hermeneutics, and recent trends in contemporary German and French philosophy. The role of intentionality in contemporary debates in cognitive science. Husserl's *Ideas and Cartesian Meditations* read in full; selections from Heidegger, Sartre, and Gadamer. GER:3a

4 units, Aut (Føllesdal)

PHIL 135/235. Wittgenstein—(Graduate students register for 235.) The main themes and claims in Wittgenstein's later work concentrating on his views about meaning, mind, knowledge, the nature of philosophical perplexity, and the nature of philosophical progress in his *Philosophical Investigations*. Emphasis is on the relationship between the novel arguments of the *Investigations* and its ways of writing up the results of philosophical questioning. GER:3a
4 units, Spr (Hills)

PHIL 138/238. Recent European Philosophy—(Graduate students register for 238.) Themes and thinkers in 20th-century continental philosophy. Emphasis is on novel understandings of time, language, and cultural power. Thinkers include Heidegger, Benjamin, Saussure, and Foucault, together with precursors and contemporary admirers and critics. GER:3a
4 units, Spr (Hills)

LOGIC AND PHILOSOPHY OF SCIENCE

PHIL 150/250. Basic Concepts in Mathematical Logic—(Graduate students register for 250; formerly 159.) The concepts and techniques used in mathematical logic, primarily through the study of the language of first order logic. Topics: formalization, proof, propositional logic, quantifiers, sets, mathematical induction, and enumerability. GER:2c
4 units, Aut (Segeberg)

PHIL 151/251. First-Order Logic—(Graduate students register for 251; formerly 160A.) The syntax and semantics of sentential and first-order logic. Introduction to the basic concepts of model theory. Gödel's Completeness Theorem and its consequences: the Löwenheim-Skolem Theorem and the Compactness Theorem. Prerequisite: 150 (formerly 159) or consent of instructor. GER:2c
4 units, Win (Segeberg)

PHIL 152/252. Computability and Logic—(Graduate students register for 252; formerly 160B.) Approaches to effective computation: recursive functions, register machines, and various programming styles. Proof of their equivalence, discussion of Church's Thesis. Elementary recursion theory. These techniques are used to prove Gödel's Incompleteness Theorem for arithmetic, whose technical and philosophical repercussions are surveyed. Prerequisite: 151 (formerly 160A). GER:2c
4 units, Spr (Segeberg)

PHIL 154/254. Modal Logic—(Graduate students register for 254; formerly 169.) Introduction to the basics of modal logic, with an emphasis on action and information. Topics show the interdisciplinary nature of the field, among philosophy, computer science, linguistics, mathematics, and economic game theory. Prerequisite: 150 (formerly 159) or preferably 151 (formerly 160A). GER:2c
4 units, Spr (van Benthem)

PHIL 155/255. Concepts of Freedom—(Graduate students register for 255.) Historical and current concepts of freedom. The views of Hume, Kant, Mill, A.V. Dicey, and Hayek; recent works, including economic concepts of freedom. Recent work on free will as a properly empirical concept. GER:3a
4 units, Spr (Suppes)

PHIL 156. Popper, Kuhn, and Lakatos—(Same as EDUC 214.) These 20th-century philosophers of science raise fundamental issues dealing with the nature of scientific progress: the rationality of change of scientific belief, science versus non-science, role of induction in science, truth or verisimilitude as regulative ideals. Their impact in the social sciences and applied areas such as educational research. GER:3a
3 units, Spr (Phillips)

PHIL 157/257. Topics in the Philosophy of Logic—(Graduate students register for 257.)
4 units (Staff) not given 2004-05

PHIL 161. Set Theory—(Enroll in MATH 161.)
3 units, Win (White)

PHIL 162/262. Philosophy of Mathematics—(Graduate students register for 262.) Introduction to 20th-century approaches to the foundations and philosophy of mathematics. The background in mathematics, set theory, and logic. The schools and programs of logicism, predicativism, platonism, formalism, and constructivism. Readings from leading thinkers. Prerequisite: 151 (formerly 160A) or consent of instructor.
4 units, Spr (Staff)

PHIL 164/264. Central Topics in the Philosophy of Science: Theory and Evidence—(Graduate students register for 264.) The relation of theory to evidence and prediction. The problems of induction, confirmation and empirical under-determination. Theory choice. Hypothetico-deductivism, Bayesianism, and inference to the best explanation. The application of theory via models, and the semantic conception of scientific theories. Theoretical unification. GER:3a
4 units, Aut (Ryckman)

PHIL 165/265. Philosophy of Physics—(Graduate students register for 265.) The philosophy of space and time. Absolute and relational theories of space, time, and motion. Special relativity and the conventionality of simultaneity. Mach's principle and general relativity. Metric conventionalism. Space-time substantivalism, Einstein's hole argument, and the meaning of general covariance. Causally pathological space times and space-time singularities. GER:3a
4 units, Spr (Ryckman)

PHIL 167A/267A. Philosophy of Biology—(Graduate students register for 267A.) Philosophical questions raised by evolutionary biology. The concepts of fitness and adaptation. How are hypotheses about adaptation to be tested? How should organisms be classified? How can the history of the phylogenetic branching process be inferred? Are there laws in evolutionary biology? Are theories in biology reducible to theories in physics? What does evolutionary biology contribute to the understanding of human mind and culture? GER:3a
4 units, Aut (Tanona)

PHIL 167B/267B. Philosophy, Biology, and Behavior—(Graduate students register for 267B.) Continuation of 167A/267A. Further philosophical study of key theoretical ideas in biology, focusing on problems involving explanation of behavior. Topics: altruism, group selection, genetic determinism. Prerequisite: 167A, or some philosophy background and Biological Sciences or Human Biology core, or equivalent with consent of instructor.
4 units (Staff) not given 2004-05

ETHICS, AESTHETICS, AND SOCIAL AND POLITICAL PHILOSOPHY

PHIL 170/270. Ethical Theory—(Graduate students register for 270; same as ETHICSOC 170.) Major strands in contemporary ethical theory. Readings include Bentham, Mill, Kant, and contemporary authors. GER:3a
4 units, Win (Schapiro)

PHIL 171/271. Political Philosophy—(Graduate students register for 271; same as ETHICSOC 171.) What makes a society a just society? Focus is on the social contract tradition. Readings may include Hobbes, Locke, Rousseau, and Rawls. GER:3a
4 units, Spr (Schapiro)

PHIL 172. Kantian Value Theory—The role of autonomy, principled rational self-governance, in Kant's account of the norms to which humans beings are answerable as moral agents, citizens, empirical inquirers, and religious believers. Relations between moral values (goodness, rightness) and aesthetic values (beauty, sublimity). GER:3a
4 units (Hills) not given 2004-05

PHIL 176/276. Political Philosophy: The Social Contract Tradition—(Graduate students register for 276.) Why and under what conditions do human beings need political institutions? What makes them legitimate or illegitimate? What is the nature, source, and extent of the obligation to obey the legitimate ones, and how should people alter or overthrow the

others? Answers by political theorists of the early modern period: Hobbes, Locke, Rousseau, and Kant. GER:3a

4 units, Aut (Hills)

PHIL 177. Philosophical Issues Concerning Race and Racism—(Same as POLISCI 136.) Concepts of race, race consciousness, and racism, and their connections. What is race and what is its role in racism? How should ethnic and racial identities be viewed to secure the conditions in which humanity can be seen as a single moral community whose members have equal respect? What laws, values, and institutions best embody the balance between the competing goals of group loyalty, opposition to racism, and common humanity? Philosophical writings on freedom and equality, human rights, pluralism, and affirmative action. Historical accounts of group exclusion and various explanations. GER:3a,4b

4 units (Satz) not given 2004-05

PHIL 178. Ethics in Society Honors Seminar—(Same as ETHICSOC 190.) For students planning honors in Ethics in Society. Methods of research. Students present issues of public and personal morality; topics chosen with advice of instructor.

3 units, Win (Satz)

EPISTEMOLOGY, METAPHYSICS, PHILOSOPHY OF MIND, AND PHILOSOPHY OF LANGUAGE

PHIL 181/281. Philosophy of Language—(Graduate students register for 281.) Conceptual questions about language as a focus of contemporary philosophy both for its inherent interest and because philosophers see questions about language as behind perennial questions in other areas of philosophy including epistemology, the philosophy of science, metaphysics, and ethics. Key concepts and debates about meaning, truth, reference, and language use, with relations to psycholinguistics and formal semantics. Readings from philosophers such as Frege, Russell, Wittgenstein, Grice, and Kripke. Prerequisites: 80 and background in logic.

4 units, Aut (Crimmins)

PHIL 184/284. Theory of Knowledge—(Graduate students register for 284.) Competing theories of epistemic justification (foundationalism, coherentism, and externalism) against the background of radical skepticism. Readings from contemporary sources. Prerequisite: 80 or consent of instructor. GER:3a

4 units, Win (Lawlor)

PHIL 186/286. Philosophy of Mind—(Graduate students register for 286.) Debates concerning the nature of mental states, their relation to straightforwardly physical states of the human body, the manner in which they acquire their content, the ways people come to know about them in themselves and in others, and the roles they play in the explanation of human conduct.

4 units, Aut (Rey)

PHIL 187/287. Philosophy of Action—(Graduate students register for 287.) What is it to be an agent? Is there a philosophically defensible contrast between being an agent and being a locus of causal forces to which one is subject? What is it to act purposively? What is intention? What is it to act intentionally? What is it to act for a reason? Are the reasons for which one acts causes of one's action? What is it to act autonomously? Readings: Davidson, Frankfurt, and others. Prerequisite: 80. GER:3a

4 units, Win (Bratman)

PHIL 188. Personal Identity—People seem to remain the same despite the various changes they undergo during their lives. Why? The answer can profoundly influence one's beliefs about whether people are essentially bodies or minds, and whether one's own survival matters. Readings include John Locke, Thomas Reid, David Hume, Bernard Williams, and Derek Parfit. GER:3a

4 units (Perry) not given 2004-05

PHIL 189. Philosophical Applications of Cognitive Science—The relevance of recent discoveries about the mind to philosophical questions in metaphysics, epistemology and philosophy of science, and ethics. Questions include: is there a right way to carve up the world into categories? Are the rules of logic objective, or just the way we happen to think? Is there such a thing as objective right and wrong?

4 units (Staff) not given 2004-05

PHIL 190. Introduction to Cognitive Science—(Same as LINGUIST 144, SYMBSYS 100, PSYCH 130.) The history, foundations, and accomplishments of the cognitive sciences, including presentations by leading Stanford researchers in artificial intelligence, linguistics, philosophy, and psychology. Overview of the issues addressed in the Symbolic Systems major. GER:3b

4 units, Spr (Jurafsky, Richardson)

PHIL 193L. Montaigne—(Same as HUMNTIES 193L.) Preference to Humanities honors students and Philosophy majors. Philosophical and literary aspects Montaigne's *Essays* including the nature of the self and self-fashioning, skepticism, fideism, and the nature of Montaigne's philosophical project. Montaigne's development of the essay as a literary genre.

4 units, Win (Anderson)

PHIL 193Y. The Moral Status of Human Beings—(Same as HUMNTIES 193Y.) The conviction that human beings have a unique moral status among animals, plants, and things, and that all humans have equal moral status is at the heart of ethics. Views which question these beliefs, attempts to defend them, and their implications for practical ethical issues such as abortion, euthanasia, new reproductive technologies, and the treatment of animals.

4 units, Spr (Jaworska)

PHIL 194B. Undergraduate Seminar: Time and Free Will

4 units, Spr (Perry)

PHIL 194C. Undergraduate Seminar: Philosophy of Friendship—What philosophers say about friendship.

4 units, Aut (Moravcsik)

PHIL 194D. Undergraduate Seminar: Free Will and Moral Responsibility—Priority to majors. Enrollment limited to 12. Prerequisite: background in philosophy, 80.

4 units, Aut (Bratman)

PHIL 194E. Undergraduate Seminar: Beauty and Other Forms of Value—The nature and importance of beauty and the human capacity to discern and respond to it as discussed by philosophers and artists from different historical periods. Attempts to work out the relations between beauty and ethical values such as moral goodness, and cognitive values such as truth.

4 units, Win (Hills)

PHIL 196. Tutorial, Senior Year

5 units, Aut, Win, Spr (Staff)

PHIL 197. Individual Work, Undergraduate

1-15 units, Aut, Win, Spr (Staff)

PHIL 198. The Dualist—Weekly meeting of the editorial board of *The Dualist*, a national journal of undergraduate work in philosophy. Open to all undergraduates. May be taken 1-3 quarters. (AU)

1 unit, Aut, Win, Spr (Staff)

PHIL 199. Seminar for Prospective Honors Students—Open to juniors intending to do honors in philosophy. Methods of research in philosophy. Topics and strategies for completing honors project.

2 units, Spr (Staff)

PRIMARILY FOR GRADUATE STUDENTS

Graduate students should also consult previous entries in the catalog for courses with graduate student numbers.

PHIL 206S. Seminar in Foundations of Neuroscience—Topic this year is physical models of memory retrieval emphasizing associative networks and concepts of resonance.

4 units, Win (*Suppes*)

PHIL 223. Medieval Commentary on Aristotle's *De Anima*—Aristotle's view on mental representation, interpreted, refined, and criticized by Thomas Aquinas and other medieval philosophers. Reading of original texts in translation and of recent historical and systematic discussion.

3 units (*Føllesdal, Moravcsik, Suppes*) not given 2004-05

PHIL 224. Kant's Philosophy of Physical Science—Kant's *Metaphysical Foundations of Natural Science* (1786), published between the first (1781) and second (1787) editions of the *Critique of Pure Reason*, in the scientific and philosophical context provided by Newtonian natural philosophy and the Leibnizean tradition. The place of this work in the development of Kant's thought. Prerequisite: prior acquaintance with either Kant's theoretical philosophy or the contemporaneous scientific context, principally Newton, Leibniz, and Euler.

4 units (*Friedman*) not given 2004-05

PHIL 230. The Philosophical and Educational Thought of John Dewey—(Enroll in EDUC 304.)

4 units, Aut (*Phillips*)

PHIL 237. Nietzsche—Preference to Ph.D. students. Nietzsche's later works emphasizing *The Gay Science*, *Beyond Good and Evil*, and *On the Genealogy of Morals*. The overall shape of Nietzsche's philosophical and literary projects, and his core doctrines such as eternal recurrence, will to power, and perspectivism. Central problems such as the proper regulation of belief, and the roles of science, morality, art, and illusion in life.

4 units (*Anderson*) not given 2004-05

PHIL 239. Teaching Methods in Philosophy—For Ph.D. students in their second or third year who are teaching assistants for the department. Discussion of issues about the teaching of philosophy.

1-4 units, Aut, Win, Spr (*Staff*)

PHIL 240. Individual Work for Graduate Students

1-15 units, Aut, Win, Spr (*Staff*)

PHIL 241. Dissertation Development Seminar

3 units, Sum (*Staff*)

PHIL 242A. Methodological Problems in Population Biology—How hypotheses ought to be tested; how the data generated by a test ought to be interpreted. Examples involve hypotheses about natural selection and phylogenetic relationships. The use of model selection criteria in population biology such as the Akaike information criteria.

3 units (*Staff*) not given 2004-05

PHIL 243. Saving Phenomena—(Same as CLASSGEN 134/234.) The determination of theory by empirical evidence is at the heart of the philosophy of science. Readings include seminal works of Western science: Ptolemy's *Almagest*, focusing on theories of the Sun and the Moon; Galen's *On Natural Faculties*, focusing on the theory of the urinary bladder; Archimedes' *Planes in Equilibrium*, focusing on the theory of balance. Each represents a different use of empirical evidence in scientific theory, and combining evidence provides a richer theory of saving the phenomena. GER:3a

4 units (*Netz, Suppes*) not given 2004-05

PHIL 248. Medieval Latin Paleography—(Formerly 314.) The history of medieval scripts and editing medieval texts in philosophy, physics, and theology. Dating and placing Latin European medieval manuscripts. Medieval abbreviation, punctuation, and codicology. Class project: a French commentary on Aristotle's ethics preserved in a Florentine manuscript.

3-5 units, Spr (*R. Wood*)

PHIL 258. Minds and Machines—Readings on arguments concerning mechanical models of the mind including Turing machine models to which Gödel's incompleteness theorems are relevant, and connectionist (neural net) models. Prerequisites: 151 (formerly 160A), 152, or equivalents. Recommended: 389.

4 units, Win (*Feferman*)

PHIL 272. Kantian Value Theory—The role of autonomy, principled rational self-governance, in Kant's account of the norms to which humans beings are answerable as moral agents, citizens, empirical inquirers, and religious believers. Relations between moral values (goodness, rightness) and aesthetic values (beauty, sublimity).

4 units (*Hills*) not given 2004-05

PHIL 286B. Seminar on Lexical Semantics—How to specify the meanings of lexical terms. Fodor on atomism-holism. Do meanings have primarily psychological reality, or also ontological reality? Theories include instructor's own proposal.

4 units (*Moravcsik*) not given 2004-05

PHIL 288. Ontology and Realism—What entities really exist, what is it to commit oneself to things existing, and what grounds might there be for so committing oneself? Ordinary things, abstract objects, unobservables. Connections with larger questions of objectivity and realism.

4 units (*Crimmins*) not given 2004-05

PHIL 289. Seminar on the Language of Thought—The relation of recent research that favors the hypothesis that mental phenomena can be understood as computations over representations in a language of thought entokened in people's brains. How this program promises solutions to traditional problems in the philosophy of mind while leaving behind pretheoretic intuitions such as about *qualia* or consciousness. Readings include Rey, Fodor, Dennett, Searle, and Levine.

4 units (*Rey*) not given 2004-05

PHIL 298. Logic, Language, and Information—Logical systems for analyzing information structures, communication, and other cognitive actions. Special topics: systems for information update; logic and game theory. Prerequisite: 154 or an equivalent background in modal logic.

3 units (*van Benthem*) not given 2004-05

PHIL 313. Aristotle's Psychology and Philosophy of Mind—Primary reading is *De Anima*.

4 units, Win (*Bobonich*)

PHIL 318. Aristotle's *Ethics*—Aristotle's ethical views through the *Protrepticus* and the *Eudemian Ethics*.

4 units (*Bobonich*) not given 2004-05

PHIL 328. Fichte's Theory of Intersubjectivity—The founder of the German Idealist movement who adopted but revised Kant's project of transcendental philosophy basing it on the principle of awareness of free self-activity. The awareness of other selves and of ethical relations to them as a necessary condition for self-awareness. His writings from 1793-98 emphasizing the place of intersubjectivity in his theory of experience.

4 units, Aut (*A. Wood*)

PHIL 350A,B. Model Theory—(Enroll in MATH 290A,B; formerly PHIL 290A,B.)

3 units (*Staff*) not given 2004-05

PHIL 351A,B. Recursion Theory—(Enroll in MATH 291A,B; formerly PHIL 291A,B.)

3 units (*Staff*) not given 2004-05

PHIL 352A,B. Set Theory—(Enroll in MATH 292A,B; formerly PHIL 292A,B.)

3 units (*Staff*) not given 2004-05

PHIL 353A,B. Proof Theory—(Enroll in MATH 293A,B; formerly PHIL 293A,B.)

3 units, A: Win (*Feferman*), B: (*Staff*) not given 2004-05

PHIL 354. Topics in Logic—(Same as MATH 294; formerly PHIL 294.) Epsilon calculus. Syntax and semantics of first order epsilon calculus. Hilbert's epsilon substitution method. Recent progress and open problems. Prerequisites: 151 (formerly 160A), 152, or equivalents.
3 units (Staff) not given 2004-05

PHIL 356. Applications of Modal Logic—Applications of modal logic to knowledge and belief, and actions and norms. Models of belief revision to develop a dynamic doxastic logic. A workable modeling of events and actions to build a dynamic deontic logic on that foundation.
3 units, Win (Segeberg)

PHIL 359. Advanced Modal Logic—(Formerly 269.) Mathematical analysis of modal systems, including bisimulation and expressive power, correspondence theory, algebraic duality, completeness and incompleteness, and extended modal logics, up to guarded fragments of first-order logic, fixed-point logics, and second-order logic. Prerequisite: 151 (formerly 160A), 154/254, or an equivalent background.
4 units, Spr (van Benthem)

PHIL 360. Core Seminar in Philosophy of Science—(Formerly 260.) For first- and second-year Philosophy Ph.D. students.
4 units, Win (Friedman, Ryckman)

PHIL 365. Seminar in Philosophy of Science: Structural Realism—This recent version of scientific realism and its differences with standard realism and antirealism. Historical antecedents in Hertz, Poincaré, Russell, Eddington, and Weyl.
4 units, Spr (Ryckman)

PHIL 370. Core Seminar in Ethics—(Formerly 270.) For first- and second-year Philosophy Ph.D. students.
4 units (Satz) not given 2004-05

PHIL 372. Selected Problems in Kantian Ethics
4 units, Spr (Schapiro)

PHIL 374. Valuing—What is it to value something? How is valuing related to desiring, judging something to be valuable, caring, the emotions, or having policies? What is the relation between valuing and the will? Are there reasons for valuing things or pursuing what we value? Readings from contemporary literature including Bratman, Frankfurt, Harman, Helm, Raz, Scheffler, and Velleman.
4 units, Win (Jaworska)

PHIL 377. Topics in Democratic Theory—(Same as POLISCI 333.) Modern approaches to democratic theory including liberal, communitarian, republican, and participatory theories beginning with the works of Locke, Rousseau, and Mill. Writers: John Rawls, Ronald Dworkin, Jeremy Waldron, Joshua Cohen, Habermas, Petit, Iris Marion Young, Ian Shapiro, and Amy Gutman.
3-5 units, Win (Satz, Ferejohn)

PHIL 379. Seminar in Metaethics—Theories about the meaning of ethical terms and the content of ethical judgments. Do these theories fit with best accounts of human agency and practical deliberation? Readings from recent literature. Prerequisites 173B/273B, 181, 187/287 or equivalent.
4 units (Hussain) not given 2004-05

PHIL 380. Core Seminar in Metaphysics and Epistemology—(Formerly 280.) For first- and second-year Philosophy Ph.D. students.
4 units (Crimmins) not given 2004-05

PHIL 381. Core Seminar in Philosophy of Language—(Formerly 281.) For first- and second-year Philosophy Ph.D. students.
4 units, Aut (Perry)

PHIL 386. Self, Meaning, and Consciousness—Issues about the sorts of meaning mental states have, and how this relates to issues of self-knowledge, self-identity, and consciousness.
4 units, Win (Perry)

PHIL 383. Justification and Entitlement—The idea of rationalist and empiricist philosophers that one is entitled to beliefs without having to justify them. What might epistemic entitlement be; does anyone have it, and what is it good for? Readings include Goldman, Burge, Peacocke, Sellars, and Williams.
4 units, Win (Lawlor)

PHIL 384. Seminar in Metaphysics and Epistemology: the Concept of a Priori
4 units, Aut (Moravcsik)

PHIL 385. Philosophy of Language Seminar
4 units, Spr (Crimmins)

PHIL 387. Practical Reason—Contemporary work on practical rationality.
4 units, Spr (Bratman)

PHIL 389. Mind and Brain—Nine seminars from October 11-29 analyzing contemporary work in neuroscience and its bearing on philosophical problems of mind. Guest speakers include Anne Fagot-Largeault and Jean-Pierre Changeux from Collège de France. Credit requires a paper to be presented in November and attendance at an organizational meeting on September 29.
4 units, Aut (Føllesdal, Suppes)

PHIL 450. Thesis
1-15 units, Aut, Win, Spr (Staff)

This file has been excerpted from the *Stanford Bulletin*, 2004-05, pages 507-517. Every effort has been made to ensure accuracy; post-press changes may have been made here. Contact the editor of the bulletin at arod@stanford.edu with changes or corrections. See the bulletin website at <http://bulletin.stanford.edu> for late changes.