

College of Arts and Sciences

General Education

The faculty of the College of Arts and Sciences has established a Board on General Education responsible for creating and maintaining a program of courses designed for nonspecialists. Such courses are free from the need to present the elements of an entire subject as a basis for more specialized study. They can therefore be deeper and more challenging than conventional introductions, as concerned with the general ability to write and think as they are with substantive content. Besides such courses for nonspecialists, the board has also sought courses that require a relatively advanced acquaintance with a particular field, but not in the interest of further specialization. The aim of such specialized general education courses is to raise, for an informed audience, questions about the history of a field, about its methodological or philosophical presuppositions, or about its relation to other fields of knowledge.

Twice a year at advance course enrollment the board distributes to students and faculty in the college a set of descriptions of courses and departmental programs. These have been recommended by departments or faculty members and are considered by the board to be particularly suitable as introductory or upperclass general education courses. Almost any course in the University can serve eminently well as a general education course for some student. The purpose of the board's booklet is to call attention to some of the new and existing courses or programs in the College of Arts and Sciences whose primary focus is on general education. The booklet is not intended to be used in planning electives as a substitute for the *Description of Courses*, but rather as a guide to some of the more striking possibilities to be found in the pages that follow.

Akkadian

See Department of Near Eastern Studies, p. 108.

American Studies

American studies is basically a program of coordinated study in the history and literature of the United States. Courses are drawn from a number of different departments, and students who are interested in American studies should consult the program description in the *Announcement of Academic Information*.

Anthropology

To cover the breadth and diversity of anthropology the Department offers five different introductory courses. Each surveys a major subarea of the discipline. The most general is 111, Nature and Culture, which introduces a set of themes central to all the other courses. The remaining four (112, 113, 114, 116) cover aspects of social and cultural anthropology, biological anthropology, and archaeology respectively. Given the logic of their organization, it is recommended that students start with 111 and select from among the others in terms of their own interests. Majors are required to take 111. Anthropology courses with numbers below 500 do not have prerequisites unless specifically given in the course descriptions.

I. Introductory Courses (including Freshman Seminars)

111 Nature and Culture Fall. 3 credits (4 by arrangement with instructor).

M W F 11:15. D. J. Greenwood.
Anthropology arose as a novel attempt to address fundamental questions about humanity: Who are we? Where do we come from? Where are we going? Though it does not provide privileged answers to these questions, it approaches them through a unique combination of methods and a spirit of comparative inquiry. Informed by the long view gotten from the study of human evolution and culture history and the comparative view arising from the study of contemporary human biological and cultural diversity and uniformity, anthropology aspires to examine the relationships between the physical/biological and symbolic/moral worlds in which we live. This course examines a variety of past and current attempts to explain the relationships between nature and culture in human life.

112 Social Anthropology Spring. 3 credits (4 by arrangement with instructor).

M W F 10:10. C. J. Greenhouse.
Anthropologists study social institutions by examining how they relate to their cultural contexts and how they vary across cultures. Using what are, in most cases, first-hand accounts by ethnographers, we consider law, politics, religion, kinship, economics, family life, and other aspects of the institutional arrangements human beings design for themselves in adaptation to their own sociocultural environments. The course meets twice weekly for lectures, and once weekly for films and seminars.

113 The Comparison of Cultures Fall. 3 credits (4 by arrangement with instructor).

M W F 10:10. J. V. Murra.
The diversity of cultural responses to similar human needs is what strikes one first when looking at what anthropologists do. The variability looms endless, yet we have also insisted on the rule within the multiplicity, the regularities behind the apparently bizarre. Through reading and the lectures, students will familiarize themselves with four cultures from several parts of the world. Two of these four will be precapitalist, non-European kingdoms; the other two will be smaller societies in which cultural homogeneity was striking. Fiction and films will supplement the formal anthropological material.

114 Human Origins: What They Tell Us About Ourselves Spring. 3 credits (4 by arrangement with instructor).

T R 10:10–11:25. L. C. Jackson.
Anthropological inquiries about human diversity and about human biology and behavior require an understanding of the causes and effects of evolution. This survey of biological anthropology examines recent issues about human origins and antiquity, adaptations to past environments, sociobiology, the communications with apes, physical diversity in ancient and modern populations, and our biological capacity for developing a diversity of cultural behaviors—our most critical adaptation. Current controversies about the extent to which cultural behaviors reflect the effects of biological adaptation through natural selection will be examined in detail. Lectures are supplemented with films, class discussion sections, guest lecturers, and assigned readings.

116 Ancient Societies Spring. 3 credits (4 by arrangement with instructor).

M W F 9:05. J. S. Henderson.
An introduction to anthropological archaeology. Case studies provide detailed examples of methods used and problems encountered in reconstructing ancient societies. Cases feature diverse societies representing a variety of time periods, world areas, and levels of cultural complexity, including hunting

bands, farming villages, non-urban kingdoms, and urban empires. The course illustrates the nature and diversity of archaeological evidence and the process of archaeological reasoning and provides a perspective for evaluating popular generalizations about cultural evolution.

121 Encounters With Other Cultures Fall. 3 credits. Freshman Seminar.

M W F 1:25. B. Lambert.
A survey of writings by anthropologists and other travelers who have told of their experiences as participants in other societies and as interpreters of foreign cultures. Ways of playing the outsider's role and changes in the traveler's own outlook are also discussed. Some of the lectures deal with the cultural contexts of the readings, and thereby provide an introduction to the materials of cultural anthropology.

125 The Anthropologist's America Fall. 3 credits. Enrollment limited to 15 students. Freshman Seminar.

R 2:30–4:25. R. Ascher.
The anthropologist, having experienced the cultures of others, views America with new eyes. Readings include interpretations of contemporary American ceremonies, games, myth, gadgets, arts, foot habits, buildings, and language. Writing is limited to careful descriptions of things, scenes, and processes outside of one's ordinary experience. For example, a student might observe and record a ritual of a religion other than his or her own. Discussions focus on alternate anthropological interpretations of what students describe in their writings.

130 Apes and Languages Spring. 3 credits. Freshman Seminar.

W 7:30–9:30 p.m. B. J. Isbell.
Extraordinary claims have been made about the language capacities of chimpanzees and gorillas. Are the apes talking? How does the sign language that has been taught to apes compare with natural spoken language of human beings? A selection of popular and scholarly books and articles will be examined in order to better understand the key issues in the debate over the language capacities of apes.

150 The Discovery of America Spring. 3 credits. Freshman Seminar.

T 12:20–2:15. T. F. Lynch.
The discovery of the New World, beginning with American Indian origins in Asia and ending with the intellectual discoveries of European adventurers, chroniclers, and travelers. Special attention is given to Norse exploration and settlement in the North Atlantic, the first Spanish encounters with the American land and people, and the exchange of flora and fauna.

205 Ethnographic Films Fall. 2 credits.

W 7:30–9 p.m. A. T. Kirsch.
Human cultural and social variability is explored through a series of ethnographic films, and readings and lectures relating to these films. The films are chosen to show peoples living in a variety of ecological situations and at different levels of social complexity in various parts of the world (i.e., Africa, Asia, Australia, the Americas). Readings and lectures will use the concepts and theories of cultural anthropology to interpret the significance of the different modes of life shown in the films.

II. Courses Intended Primarily for Majors

300 The Discipline of Anthropology Fall. 4 credits. Limited to and required of anthropology majors, who must take this course during the junior year.

T R 2:30–3:45. B. J. Isbell with the Anthropology faculty.
An overview of the field of anthropology: a systematic treatment of the discipline, the concepts that are used, the persistent questions that are asked, the

specializations within the field, and the shared goals and differing viewpoints. This course will help the student plan course work in anthropology.

491 Honors Thesis Fall. 4 credits. Prerequisite: consent of the honors committee. Intended for majors graduating in midyear.

Hours to be arranged. Staff.
Independent work under the close guidance of a faculty member selected by the student.

492 Honors Thesis Spring. 4 credits. Prerequisite: consent of the honors committee.

Hours to be arranged. Staff.
Independent work under the close guidance of a faculty member selected by the student.

495 Social Relations Seminar (also Sociology 497) Spring. 4 credits. Limited to seniors majoring in social relations.

Hours to be arranged. Staff.

497-498 Topics in Anthropology 497, fall; 498, spring. Credit to be arranged.

Hours to be arranged. Staff.
Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

III. Archaeological Courses

See also courses listed under *Archaeology*.

[250 The Earliest Civilizations Fall. 4 credits. Not offered 1980-81.]

[352 Interpretation of the Archaeological Record Spring. 4 credits. Not offered 1980-81.]

354 Archaeology of the Americas I Fall. 4 credits. M W F 9:05. T. F. Lynch.

A study of the prehistoric cultures of the New World. Major topics will include the entry of man, early adaptations to diverse environments, hunting and gathering people to the ethnographic present, and the beginnings of agriculture.

355 Archaeology of the Americas II Spring. 4 credits.

M W F 11:15. J. S. Henderson.

A consideration of the origins, development, and spread of the native civilizations of Middle and South America. Prehistoric cultural developments in Mexico, Coastal America, and the Andes from the emergence of settled village life to the European discovery of the New World will be emphasized.

[358 Archaeological Research Methods (also Archaeology 358) Fall. 4 credits. Not offered 1980-81.]

[361 Field Archaeology in South America (also Archaeology 361) Fall. 10 credits. Not offered 1980-81.]

[435 Investigation of Andean Institutions: Archaeological Strategies Spring. 4 credits. Not offered 1980-81.]

494 Seminar in Archaeology: Settlement Archaeology Fall. 4 credits.

R 10:10-12:05. J. S. Henderson.

Archaeological approaches to ancient settlements. Analyses of households, neighborhoods, communities, and regions. Emphasis is on strategies for investigation and problems in interpretation.

IV. Biological and Ecological Anthropology

221 Human Biology: Variation and Adaptations of Contemporary Populations Fall. 4 credits.

T R 10:10-11:25. L. C. Jackson.

A survey of important biological characteristics of the human species, with emphasis upon the historical development of the concept of race, biological and cultural adaptations to changing and different ecological settings of the modern world, and microevolutionary features of certain existing populations. Differences in adaptive strategies of human groups in the past and today will be discussed. Applied aspects of biological anthropology and current issues of sociobiology and genetic engineering are additional topics for consideration in the course.

[374 Human Palaeontology Fall. 4 credits. Not offered 1980-81.]

375 Ecology and Human Biology Fall. 4 credits. T R 2:30-3:45. L. C. Jackson.

An analysis of human interactions with the physical, biological, and social environment, based on the principles of general ecology. Changes over time in human interactions with the environment will be discussed, as well as differences in adaptive strategies of contemporary human groups living in similar and different environments.

[471 Laboratory and Field Methods in Biological Anthropology I Spring. 5 credits. Not offered 1980-81.]

[476 Human Behavior: A Sociobiological Perspective Fall. 4 credits. Not offered 1980-81.]

V. Linguistic Anthropology

See also courses offered in *linguistics*, listed in the *Department of Modern Languages and Linguistics*.

202 Language and Culture Fall. 4 credits.

M W F 10:10. C. F. Hockett.

A survey of the field of linguistics as a branch of anthropology.

VI. Sociocultural Anthropology

301 Biology and Society I: The Biocultural Perspective (also Biological Sciences 301 and Biology and Society 301) Fall. 3 credits (4 by arrangement with instructor). Prerequisites: one year of introductory biology. This is part of the two-semester core course for the biology and society major and is also open to other students who have fulfilled the necessary prerequisites.

M W F 9:05. D. J. Greenwood.
Viewing human biology, behavior, and institutions as the ongoing products of the interactions between human biological evolution and cultural change, this course documents these interactions with reference to the following topics: the evolution of the capacity for culture; human groups and institutions; language, meaning, and cultural "realities"; and major models of human nature and human institutions.

302 Biology and Society II: Biology, Society, and Human Values (also Biological Sciences and Biology and Society 302) Spring. 3 credits (4 by arrangement with instructor). Prerequisites: Anthropology, Biological Sciences, or Biology and Society 301. This is the second semester of a two-semester core course for the biology and society major and is also open to other students who have taken Anthropology 301 (Biological Sciences and Biology and Society 301).

M W F 9:05. S. M. Brown, Jr., and S. Risch.
This course takes up the complex intellectual, practical, and ethical issues centering on the relationships between biological and social phenomena. Specific current issues such as pollution, genetic counseling, recombinant DNA research, and others will be taken up and an effort will be made to develop a viable biocultural ethics for dealing with such problems.

305 Psychological Anthropology Fall. 4 credits.

M W F 11:15. B. J. Isbell.

A consideration of problems selected to illustrate the mutual relevance of psychology and anthropology, concentrating on cross-cultural studies of cognitive and social development, with an emphasis on comparisons of socialization for sex roles.

313 Urban Anthropology Spring. 4 credits.

M W F 9:05. R. J. Smith.

An examination of the sociocultural structure and process in urban settings, with emphasis on the role of rural migrants, the relationship of urbanism to political and economic development, the role of voluntary associations, and the adjustment of family and kinship groups to urban life. Asian, African, and Latin American urban centers are emphasized.

314 Applied Anthropology (also Rural Sociology 355) Fall. 4 credits.

M W F 11:15. M. L. Barnett.

What anthropology knows or suspects about some general processes of cultural change, and the application of these insights to practical and ethical problems faced in the planning, conduct, and evaluation of programs of intervention and change.

320 Meaning Across Cultures Fall. 4 credits.

T R 10:10-11:25. J. A. Boon.

Are societies machines, therapies, religions, dramas, stories, texts, games, aesthetic forms, structural codes? We assess such possibilities in anthropological views of different cultures: from cosmologies and ceremonies of tribal systems, to expressive genres of archaic hierarchies, to differentiated arts and sports of nation-states. Principles of language and culture, symbolic interpretation, and structuralism are introduced.

321 The Anthropology of Women (also Women's Studies 321) Fall. 4 credits.

M W F 2:30. K. S. March, D. H. Holmberg.

An introduction not only to the study of women from an anthropological perspective but, also, to anthropological theories of sex and gender from the perspective of women's studies. The course examines various aspects of the position of women—political, economic, social, ideological, and biological—to emphasize the diversity in gender and sex-role definition cross-culturally.

[322 Comparative Religious Systems Spring. 4 credits. Not offered 1980-81.]

323 Kinship and Social Organization Spring. 4 credits.

M W F 11:15. B. Lambert.

Much of this course is a survey of forms of the family, descent groups, and marriage systems. The role of age and sex in the social structure is also considered. The last part of the course is devoted to a history of the British and American family and to its fate in utopian communities.

325 Images of Exotics Spring. 4 credits.

T R 10:10-11:25. J. A. Boon.

A survey of texts and contexts in European explanations of tribal, Indic, and other non-Western populations. We explore topics across ancient, medieval, Renaissance, Enlightenment, and Romantic-comparativist anthropologies, including monstrosities, paradise, degradation, kingship, utopias, hermetics, nature, sexuality, marriage, language, economy, descent, authority, etc.

326 Economic Anthropology Fall. 4 credits.

M W F 10:10. P. S. Sangren.

Comparison of capitalist and noncapitalist economies and analysis of the cultural foundations of Western economic concepts.

[328 Law and Culture Fall. 4 credits. Not offered 1980-81.]

[329 Politics and Culture Spring. 4 credits. Not offered 1980-81.]

[347 Peasant Cultures Fall. 4 credits. Not offered 1980–81.]

[414 Anthropology and History (also History 404) Spring. 4 credits. Not offered 1980–81.]

[418 Ethnohistory Fall. 4 credits. Not offered 1980–81.]

422 Special Problems in the Anthropology of Women (also Women's Studies 422) Spring. 4 credits.

Hours to be arranged. K. S. March.

Each year this seminar focuses upon a particular area of concern within the anthropology of women, building upon the work done in Anthropology and Women's Studies 321. The topic for 1980–81 is women's life histories. This seminar explores the insights provided by biographical and autobiographical materials into both the peculiarities of individual lives and wider cultural forms.

[424 Myth, Ritual, and Sign Fall. 4 credits. Not offered 1980–81.]

[426 Ethnography of Communication Fall. 4 credits. Not offered 1980–81.]

451 Anthropological Boundaries Fall. 4 credits. S-U grades only. Enrollment limited.

T 2:30–4:25. R. Ascher.

An exploration of the ways in which the creative arts serve as a model for doing anthropology. The works of anthropologists, native artists who use traditional sources, and Western artists who sense a kinship with anthropological questions are studied. The novel, cinema, and poetry are emphasized, but attention is also given to still photography, music, theatre, architecture, and sculpture. About half the course is devoted to native North America, the rest is divided between Africa, Europe, and the contemporary United States. *Henderson the Rain King*, *Three Penny Opera*, and *The Navajo Silversmith* are examples of readings, listenings, and viewings, respectively.

452 Portraits, Profiles, and Life Histories Spring. 4 credits. S-U grades strongly recommended. Enrollment limited.

T 2:30–4:25. R. Ascher.

The goal is the creation, by each student, of a portrait or life history of one other person. Freedom is granted—and experimentation is encouraged—in the form of observation, recording, and presentation. As a point of departure, a study is made of books such as *The Children of Sanchez* and *Group Portrait With Lady*. Portraits on film include *Sam and Betty Tells Her Story*. The photography of Arbus and Avedon and the sculpture of Segal and Giacometti are examined critically. Discussion includes life histories in the works of Freud, Gertrude Stein, and Radin.

453 Constructions and Visualizations Spring. 4 credits. S-U grades only. Enrollment limited.

R 2:30–4:25. R. Ascher.

The expression of anthropological ideas through original three-dimensional constructions, tapes, drawings, graphics, video, painting, film, and related media. Writing can be combined with visual expressions as, for example, in concrete poetry or photographic essays. Projects must conform to three general guidelines: (1) concern with some aspect of the human condition; (2) prior knowledge of the medium chosen for the project; and (3) the project must be one that can be developed through the course and benefit from its particular setting. The first half of the term consists of readings and discussion; the projects occupy the second half.

VII. Theory and History of Anthropology

[306 Ethnographic Description Spring. 4 credits. Not offered 1980–81.]

412 Contemporary Anthropological Theory Fall. 4 credits.

M W F 11:15. B. Lambert.

A survey of the assumptions social anthropologists make concerning the nature of society and culture, and the explanations they have proposed for regularities in social behavior, values, and belief systems. Among the approaches considered are processual analysis, the use of the concept of transaction, the historical method, ethnohistory, and structuralism.

[413 History of Anthropology in the United States Fall. 4 credits. Not offered 1980–81.]

417 Structuralism Spring. 4 credits.

T R 2:30–3:45. J. A. Boon.

A study of the corpus of Claude Lévi-Strauss and a reading of diverse structuralist texts which raise general issues in philosophy, criticism, and the comparative method. An effort is made to assess the place of structuralism in the history of ideas.

420 Development of Anthropological Thought Spring. 4 credits.

T R 11:15, plus additional 50-minute section to be arranged. A. T. Kirsch.

Developing a paradigmatic perspective, this course attempts to locate the emergence and development of anthropological thought, theories, methods, and generalizations within the context of the Western social and cultural milieu.

425 Ritual Structures and Cultural Pluralism Fall. 4 credits.

R 2:30–4:25. J. A. Boon.

The course focuses on Indonesia plus other areas with Hindu-Buddhist and Islamic religious traditions. We examine ethnographies and novels that portray complexities of ritual, marriage, rank, and ethnic, religious, or cross-clan stereotypes. Colonial and post-colonial works by Bateson, Hocart, Rassers, Geertz, Dumont, Multatuli, Forster, and others are considered.

[475 Physical Anthropology: History and Theory Spring. 4 credits. Not offered 1980–81.]

VIII. Area Courses

[230 Ethnology of Native North America Fall. 4 credits. Not offered 1980–81.]

[331 The United States Spring. 4 credits. Not offered 1980–81.]

333 Ethnology of the Andean Region Fall. 4 credits.

M W F 2:30. J. V. Murra.

Cultural continuities in the development of Andean societies. The ecological, archaeological, ethnohistorical, and contemporary ethnological record. The Andean heritage as a resource for "modernization."

[334 Ethnology of Island Southeast Asia Fall. 4 credits. Not offered 1980–81.]

[335 Ethnology of Mainland Southeast Asia Fall. 4 credits. Not offered 1980–81.]

[336 Ethnology of Oceania Fall. 4 credits. Not offered 1980–81.]

[338 Ethnology of Africa Spring. 4 credits. Not offered 1980–81.]

Culture and Society in South Asia Spring.

4 credits.

M W F 10:10. D. Holmberg.

An introduction to the main features of South Asian culture, society, and history with emphasis on Hindu India, Nepal, and Sri Lanka.

343 Traditional Chinese Society and Culture Fall. 4 credits.

M W F 1:25. P. S. Sangren.

Chinese society in the nineteenth and early twentieth centuries is considered as a complex, premodern society. Major topics include family and kinship; villages and their integration into local systems; social stratification and mobility; and religion, ideology, and values.

344 Modern Chinese Society Spring. 4 credits.

M W F 10:10. P. S. Sangren.

The emphasis is on change in Chinese society and culture, among the Overseas Chinese, in Hong Kong and Taiwan and in China proper.

345 Japanese Culture and Society Fall. 4 credits.

M W F 9:05. R. J. Smith.

The social structure of Japan is surveyed and trends in urban and rural life during the past century are discussed. The family, ancestor worship, community and social organization, and urbanism and modernization are the topics emphasized.

[432 Indians of Mexico and Central America Spring. 4 credits. Not offered 1980–81.]

433 Andean Thought and Culture Spring. 4 credits.

M W F 1:25. B. J. Isbell.

Andean conceptual structures are explored in order to delineate key symbolic concepts underlying the organization of social and cosmological space, time, history, kinship, and political structure. Ethnohistorical and ethnographic research will be used to focus upon the dynamics of change in Andean conceptual structures.

456 Mesoamerican Thought and Culture Fall. 4 credits. Prerequisite: Anthropology 355 or 432.

T 10:10–12:05. J. S. Henderson.

Investigating pre-Columbian Mesoamerican peoples by means of their painted books, supplemented by historical documents. Emphasis is on reconstructing Aztec and Maya religion and concepts of time, space, and the universe.

IX. Related Courses in Other Departments

Introduction to Archaeology (Archaeology 100)

Popular Archaeology (Archaeology 107)

History of Archaeology (Archaeology 281)

Individual Study in Archaeology and Related Fields (Archaeology 300)

Historical Archaeology (Archaeology 311)

Archaeology of Ancient Europe (Archaeology 313)

Human Growth and Development: Biological and Social Psychology Consideration (Nutritional Sciences/HDFS 347)

Subsistence Agriculture in Transition (Rural Sociology 357)

Cross-Cultural Psychology (Sociology 384 and Psychology 384)

Interpersonal and Social Stress and Coping (Sociology and Psychology 486)

X. Graduate Seminars

600-level courses are open to undergraduates who have fulfilled the prerequisites or by consent of the instructor.

Southeast Asia Seminar: Malaysia (Asian Studies 601)

Southeast Asia Seminar: Indonesia (Asian Studies 602)

607-608 Special Problems in Anthropology 607, fall; 608, spring. Credit to be arranged. Hours to be arranged. Staff.

[611 Principles of Social Anthropological Theory Fall. 4 credits. Not offered 1980-81.]

612 History of Anthropological Thought Spring. 4 credits. Restricted to graduate students. T 2:30-4:25. A. T. Kirsch. Readings in original sources of importance to the development of anthropological thought.

Methods of Assessing Physical Growth in Children (Nutritional Sciences 612)**619 Anthropological Approaches to the Study of Buddhism in Asia** Fall. 4 credits.

T 2:30-4:25. A. T. Kirsch. This seminar will examine the various conceptual and analytical strategies employed by social scientists in the study of Theravada Buddhism in South and Southeast Asia. Problems of religious complexity, the social and psychological correlation of Buddhism, and the role of Buddhism in social change will be explored.

627 Law in the Context of Culture Spring. 4 credits.

W 2:30-4:25. C. J. Greenhouse. What do legal processes reveal of culture? Discussions and readings for this seminar develop around the comparison of four contemporary legal systems: The United States, the People's Republic of China, the customary law of Africa, and Islamic law. In each case, our fundamental concerns will be to examine what each system implies is the nature of the individual, and the relationship of the individual to society, through such concepts as justiciability, liability, evidence, reasonableness, and causality. In addition, the seminar requires a term paper from each student.

[628 Political Anthropology Spring. 4 credits. Not offered 1980-81.]**Anthropometric Assessment (Nutritional Sciences 630)**

[632 Andean Symbolism Spring. 4 credits. Not offered 1980-81.]

633 Andean Research Fall. 4 credits. Hours to be arranged. J. V. Murra.

634-635 Southeast Asia: Readings in Special Problems 634, fall; 635, spring. Credit to be arranged.

Hours to be arranged. M. L. Barnett, J. A. Boon, A. T. Kirsch.

[651 Anthropological Boundaries: Graduate Spring. 4 credits. Not offered 1980-81.]**[653 Constructions and Visualizations: Eskimos and Theatre** Fall. 4 credits. Not offered 1980-81.]**663 Problems in Archaeology: Agricultural Origins** Fall. 4 credits.

M 2:30-4:25. T. F. Lynch. The topic will be considered in historical perspective, as it has been dealt with by botanists, geographers, and anthropologists. The emphasis will be on agricultural systems rather than plant or animal morphology and taxonomy. The geographical focus will be America, with special attention to the Andes.

664 Problems in Archaeology: Early Man in America Spring. 4 credits.

W 2:30-4:25. T. F. Lynch. The topic will be considered in historical perspective, as it has been dealt with by archaeologists,

anthropologists, and geologists. The emphasis will be on environmental adaptations, rather than chronology, and topics will be drawn from both North and South American archaeology.

[666 The Discovery of America Spring. 4 credits. Not offered 1980-81.]

[667 Origins of Mesoamerican Civilization Spring. 4 credits. Not offered in 1980-81.]

677 Topics of Ecological Anthropology Spring. 4 credits.

Hours to be arranged. L. C. Jackson. Survey of current literature on the subjects of human ecology and biological anthropology.

[678 Palaeoanthropology: South Asia Spring. 4 credits. Not offered 1980-81.]

Social Movements in Agrarian Society (Rural Sociology 723)**Sociotechnical Aspects of Irrigation (Rural Sociology 754)**

901-902 Field Research 901, fall; 902, spring. Credit to be arranged. Hours to be arranged. Staff.

Arabic and Aramaic

See Department of Near Eastern Studies, p. 108.

Archaeology

100 Introduction to Archaeology Spring. 3 credits.

M 4:15, W F 1:25. D. M. Jones. The history, methods, and theory of archaeology are introduced. Lectures briefly outline the nature of archaeologically known cultures around the world to help illustrate the variety of archaeological sites and materials.

101 Introduction Archaeology, Section Spring. 1 credit. Optional section to be taken concurrently with Archaeology 100. Prospective archaeology majors are expected to participate in this section, although it is open to all interested students.

M 1:25. D. M. Jones and staff. The main outlines of world archaeology are discussed briefly in terms of research problems. Seminars on particular archaeological cultures or topics are given by various archaeology staff members.

107 Popular Archaeology Fall and spring. 3 credits. Freshman Seminar.

M W F 1:25. Staff. Popular conceptions of prehistory that have antagonized the archaeological establishment are focused on. Readings include both scholarly and popular books, careful and critical analysis of archaeological evidence is emphasized.

108 The Origins and Diversity of the Family in Antiquity Fall and spring. 3 credits. Freshman Seminar.

M W F 9:05. L. A. McKee. The course concerns the study of ancient family units as cultural subsystems. We explore the range of forms and functions of the basic social unit, the family, as these are reflected in the archaeological record. Some of the theoretical questions we pursue are (1) evolutionary theories of the origin of the family, (2) the relationships between ecology and family structure, (3) the merits of approach to archaeological data and the reconstruction of ancient cultures through the methods of cultural history or through processual analysis.

300 Individual Study in Archaeology and Related Fields Fall or spring. Credit to be arranged. Prerequisite: Archaeology 100 or permission of instructor.

Hours to be arranged. Staff. Students pursue topics of particular interest with the guidance of a faculty member.

Theory and Interdisciplinary Approaches**Earth Science (Geological Sciences 103)****Earth Science Laboratory (Geological Sciences 105)****Ancient Societies (Anthropology 116)**

[The Earliest Civilizations (Anthropology 250) Not offered 1980-81.]

281 History of Archaeology Fall. 3 credits. T R 2:30-3:45. D. M. Jones.

The development of archaeological studies from sixteenth-century antiquarianism to the present day are surveyed. Concepts of man's past and scientific frameworks derived from these concepts are emphasized.

311 Historical Archaeology: Method and Theory Fall. 4 credits.

T R 10:10-11:25. D. M. Jones. A general introduction that draws examples from both Europe and North America. Theory and practical questions are addressed, including the use and interpretation of archival material. The approaches of the anthropologist and the historian are assessed using actual site reports as examples.

Geomorphology (Geological Sciences 345)

[Interpretation of the Archaeological Record (Anthropology 352) Not offered 1980-81.]

[358 Archaeological Research Methods (also Anthropology 358) Fall. 4 credits. Not offered 1980-81.]

Ceramics (History of Art 423)**Use of Soil Information and Maps as Resource Inventories (Agronomy 506)**

[Architectural Problems in Archaeological Fieldwork (Architecture 540) Not offered 1980-81.]

Surveying for Archaeologists (Architecture 541)**Glacial and Quaternary Geology (Geological Sciences 642)****Old World Archaeology**

Freshman Seminar in Popular and Practical Archaeology: The Vikings (English 110)

Freshman Seminar in Archaeology (Classics 121)

[Mediterranean Archaeology (Classics 200 and Near Eastern Studies 280) Not offered 1980-81.]

[Rise of Classical Greece (Classics 206) Not offered 1980-81.]

Introduction to Classical Archaeology (Classics 220 and History of Art 220)

[Minoan-Mycenaean Art and Archaeology (Classics 221 and History of Art 221) Not offered 1980-81.]

Archaeology in Action I (Classics 232)

Archaeology in Action II (Classics 233)

The History of Ancient Israel (Near Eastern Studies 243)

History of Preindustrial Building (Architecture 244)

[Introduction to Art History: Art of Egypt and Mesopotamia (Near Eastern Studies 248 and History of Art 211) Not offered 1980-81.]

[275 Ancient Seafaring (also Near Eastern Studies 249) Fall. 3 credits. T R 10:10-11:25. D. I. Owen. Not offered 1980-81.]

[Introduction to Biblical Archaeology (Near Eastern Studies 285) Not offered 1980-81.]

Dendrochronology of the Aegean (Classics 309)

[310 Archaeology of the Ancient Near East (also Near Eastern Studies 387) Spring. 4 credits. Prerequisite: Archaeology 100 or permission of instructor. Not offered 1980-81.]

[313 Archaeology of Ancient Europe Spring. 4 credits. Prerequisite: Archaeology 100 or consent of instructor. Not offered 1980-81.]

Arts and Monuments of Athens (Classics 320 and History of Art 320)

[Archaeology of Cyprus (Classics 321 and History of Art 321) Not offered 1980-81.]

Arts of the Roman Empire (History of Art 322)

Painting in the Greek and Roman World (History of Art 323)

[Greek Vase Painting (History of Art 325) Not offered 1980-81.]

[Art and Archaeology of Archaic Greece (Classics 326 and History of Art 326) Not offered 1980-81.]

[Greek and Roman Coins (History of Art 327) Not offered 1980-81.]

[Greek Sculpture (Classics 329) Not offered 1980-81.]

[Art in Pompeii: Origins and Echoes (History of Art 330) Not offered 1980-81.]

The Architecture of the Classical World (Architecture 341)

[Independent Study: Ancient Israel (Near Eastern Studies 348) Not offered 1980-81.]

[Independent Study: Ancient Near East (Near Eastern Studies 349) Not offered 1980-81.]

[Interconnections in the Eastern Mediterranean World in Antiquity (Near Eastern Studies 385) Not offered 1980-81.]

[Archaeology of Ancient Egypt (Near Eastern Studies 388) Not offered 1980-81.]

[Seminar in Syro-Palestinian Archaeology (Near Eastern Studies 481) Not offered 1980-81.]

Scandinavia and Europe 400-1100 (English 601)

Seminar in Aegean Archaeology (Classics 629)

Seminar in Classical Greek Archaeology (Classics 630)

[Seminar in the Architecture of the Classical World (Architecture 641) Not offered 1980-81.]

New World Archaeology

The Discovery of America (Anthropology 150) Spring.

312 Archaeology of the European Colonial Movement Spring. 4 credits. Prerequisite: Archaeology 100 or consent of instructor. T R 2:30-3:45. D. M. Jones.

Archaeology of the Americas I (Anthropology 354) Fall.

Archaeology of the Americas II (Anthropology 355)

[Investigation of Andean Institutions: Archaeological Strategies (Anthropology 435) Not offered 1980-81.]

Mesoamerican Thought and Culture (Anthropology 456)

Seminar in Archaeology: Settlement Archaeology (Anthropology 494)

Seminar in Andean Research (Anthropology 633)

Problems in Archaeology: Agricultural Origins (Anthropology 663) Fall.

Problems in Archaeology: Early Man in America (Anthropology 664) Spring.

Related Courses for Archaeology Majors

Ethnology of the Andean Region (Anthropology 333)

[Ethnology of Oceania (Anthropology 336) Not offered 1980-81.]

[Human Paleontology (Anthropology 374) Not offered 1980-81.]

[Ethnohistory (Anthropology 418) Not offered 1980-81.]

[Indians of Mexico and Central America (Anthropology 432) Not offered 1980-81.]

Andean Thought and Culture (Anthropology 433) Fall.

[Laboratory and Field Methods in Biological Anthropology (Anthropology 471) Not offered 1980-81.]

[Paleoanthropology: South Asia (Anthropology 678) Not offered 1980-81.]

Introduction to Asian Civilizations (History 190)

[Latin American History to 1825 (History 210) Not offered 1980-81.]

The Emergence of Greek Democracy (History 265)

The Crisis of Greek Civilization (History 266)

History of China up to Modern Times (History 393)

Southeast Asian History to the Fourteenth Century (History 395)

[Archaic Greece 776-500 B.C. (History 450) Not offered 1980-81.]

The Roman Revolution (History 461)

[Seminar in Ancient Classical History (History 661) Not offered 1980-81.]

Introduction to Art History: Asian Traditions (History of Art 280)

The Arts of Early China (History of Art 383)

[Studies in Indian and Southeast Asian Art (History of Art 386) Not offered 1980-81.]

The Greek Experience (Classics 211)

The Roman Experience (Classics 212)

[The Individual and Society in Classical Athens (Classics 222) Not offered 1980-81.]

The Ancient Epic (Classics 238 and Comparative Literature 238)

Greek and Roman Drama (Comparative Literature 300)

Christian Origins (Comparative Literature 326)

Literature of the Old Testament (Comparative Literature 328)

Old Testament Seminar (Comparative Literature 421)

New Testament Seminar (Comparative Literature 426)

Readings in the New Testament (Comparative Literature 429)

Jews of the Ancient and Muslim Near East: 450 B.C.E.-1204 C.E. (Near Eastern Studies 244)

[Elementary Akkadian (Near Eastern Studies 323-324) Not offered 1980-81.]

Theory and Practice of Linguistics (Linguistics 101-102)

Comparative Methodology (Linguistics 404)

[Hittite (Linguistics 621-622) Not offered 1980-81.]

Comparative Indo-European Linguistics (Linguistics 631-632)

Introductory Geological Science (Geological Sciences 101)

Introduction to Historical Geology (Geological Sciences 102)

Structural Geology and Sedimentation (Geological Sciences 325)

Historical Geology and Stratigraphy (Geological Sciences 376)

Nature and Properties of Soils (Agronomy 200)

Identification, Appraisal, and Geography of Soils (Agronomy 301)

Geography and Appraisal of Soils of the Tropics (Agronomy 401)

Morphology, Genesis, and Classification of Soils (Agronomy 603)

Plants and Human Affairs (Biological Sciences 246)

Engineering Surveying and Evaluation (Engineering CEE A380)

Photogrammetry (Engineering CEE A661)

Advanced Physical Environment Evaluation (Engineering CEE A686)

Analyses and Interpretation of Aerial Photographs (Engineering CEE A687)

Plane Surveying (Agricultural Engineering 221)

Scientific Illustration (Floriculture 417)

Introductory Photography (Architecture 251)

Second-Year Photography (Architecture 351)

[Color Photography (Architecture 350 and Art 262) Not offered 1980–81.]

[Case Studies in Preservation Planning (Architecture 544) Not offered 1980–81.]

Design and Conservation (Architecture 545)

Documentation for Preservation Planning (Architecture 546)

Elementary Statistics (Mathematics 370)

Statistics (Mathematics 472–473)

Introductory Statistics for the Social Sciences (Industrial and Labor Relations 510)

Computer Science courses numbered 100, 101, 102, 104, and 211 may be of interest to some students (see the departmental listing for information about sequences and combinations).

Asian Studies

Freshman Seminars

101 Japanese Conceptions of Beauty Spring. 3 credits.

T R 2:30–4. B. deBary.

The central aesthetic values of the Japanese tradition as they have been expressed in diverse arts are examined. The literary arts (poetry, narrative, and dramatic writing) are emphasized, but architecture, brush painting, flower arranging, and other arts are considered.

[103 Revolutions and Social Values in Modern Chinese Literature Spring. 3 credits. E. M. Gunn. Not offered 1980–81.]

104 Three Ways of Thought Fall. 3 credits.

T R 10:10–11:25. T. L. Mei.

An introduction to Confucianism, Taoism, and Zen through reading and discussion of basic texts.

[105 Feminine and Masculine Ideals in Japanese Culture (also Women's Studies 105) Fall. 3 credits. K. Brazell. Not offered 1980–81.]

Related Freshman Seminars in Other Departments

[Government 100 Contemporary Japan Fall. 3 credits. T. J. Pempel. Not offered 1980–81.]

Government 100.6 Literature and Politics Spring. 3 credits.
B. Anderson.

History 192 Asia in the Western Mind Spring. 3 credits.
V. Koschmann.

[History 193 China and the West before Imperialism Fall. 4 credits. C. A. Peterson. Not offered 1980–81.]

[History 194 Chinese Views of Themselves Spring. 4 credits. S. G. Cochran. Not offered 1980–81.]

History of Art 106 Art in a Landscape: The Traditional Arts in Southeast Asia Spring. 3 credits.

S. J. O'Connor.

General Education Courses

211 Introduction to Japan Fall. 3 or 4 credits.

M W F 11:15. K. Brazell and staff.

An interdisciplinary introduction to Japanese culture especially designed for students not majoring in Asian studies.

212 Introduction to China Spring. 3 or 4 credits.

M W F 11:15. E. M. Gunn and staff.

An interdisciplinary introduction to Japanese culture especially designed for students not majoring in Asian studies.

Asia—Literature and Religion Courses

The following courses are taught entirely in English and are open to any Cornell student.

250 Dimensions of Religious Experience in Asia Spring. 3 credits.

T R 10:10–11:25. A. G. Grapard.

A systematic approach to various religious traditions of East Asia within the context of experience: sacred time, sacred space, ritual behavior, pilgrimage, ideal types, death, relationships to the divine, religious language, sociocosmic systems, etc.

[307 Asian Dance and Dance Drama (also Theatre Arts 307) Fall or spring. 3 credits. Not offered 1980–81.]

313 The Japanese Film Fall. 3 credits.

M 2:30–4:30 plus film viewing. B. deBary.

After an introduction to methods of film analysis, the course presents a sequence of ten films by noted Japanese directors. The aim of the course is two-fold: to enhance appreciation of film as an art form, and to use the formal analysis of the films to yield insights into Japanese society and culture. Particular attention is given to areas in which Japanese film, influenced by traditional arts and aesthetic principles, has resisted Western or Hollywood codes.

351 Early Buddhism Fall. 4 credits.

T R 2:30–3:45. A. G. Grapard.

A study of the philosophies and religious context out of which Buddhism emerged and how it became a religion: formation of the doctrine, cult, and practices. The emphasis is on scriptures and philosophical outlook and on how practice is related to them. Classical Hinduism and Jainism are presented to provide a comparative background.

352 Mahayana Buddhism Spring. 4 credits.

Prerequisites: Asian Studies 351, 355, or permission of instructor.

T R 2:30–3:45. A. G. Grapard.

A survey of the major schools of Buddhism as they developed in China and Japan: cultural contexts and interactions, philosophical problems, and practices.

355 Japanese Religions Fall. 4 credits.

T R 10:10–11:25. A. G. Grapard.

A historical and phenomenological approach to the Japanese religious traditions with an emphasis on systems of interaction, in order to attempt to establish the forms of the major forces that have shaped Japanese culture.

371 Chinese Philosophical Literature Spring. 4 credits.

M W F 10:10. T. L. Mei.

Readings in English translation of Confucian, Taoist, and Buddhist works.

[372 Chinese Poetry Spring. 4 credits. T. L. Mei. Not offered 1980–81.]

373 Twentieth-Century Chinese Literature Fall. 4 credits.

M W F 10:10. E. M. Gunn.

A survey of principle works in English translation, the course introduces the fiction, drama, essays, and poetry of China beginning with the Republican era and continuing up to the present in the People's Republic and Taiwan, with attention to social and political issues and literary theory. One session each week will be devoted to discussion.

[374 Chinese Narrative Literature Spring. 4 credits. E. M. Gunn. Not offered 1980–81.]

375 Japanese Poetry and Drama Fall. 4 credits.

T R 1–2:15. K. Brazell.

A study of selected poets and dramatists in English translation. The course covers works from the eighth through the eighteenth centuries.

376 Modern Japanese Fiction Spring. 4 credits.

Lec, T 11:15–12:30; sem, R 11:15–12:30.

B. deBary.

The major Japanese novelists and short story writers of the twentieth century are studied in translation.

[377 Japanese Narrative Literature Fall. 4 credits. K. Brazell. Not offered 1980–81.]

379 Southeast Asian Literature in Translation Fall. 3 credits.

T 2:30–4:30. J. M. Echols. Uris 153.

A survey of the literatures of Southeast Asia with special attention to several masterpieces.

[400 Japanese Nō Theatre Spring. 4 credits. K. Brazell. Not offered 1980–81.]

For complete descriptions of courses numbered 600 and above consult the graduate faculty representative.

611 Chinese and Japanese Bibliography and Methodology Fall. 1 credit. Prerequisite: permission of the instructor. Required of honors students and master of arts candidates.

Sec 1 (Chinese): W 3:35–4:35; sec 2 (Japanese): F 1:25–2:25. D. Perushek.

650 Seminar on Asian Religions Spring.

2–4 credits. Prerequisite: permission of the instructor.

Hours to be arranged. A. G. Grapard.

Topic is announced annually.

701–702 Seminar in East Asian Literature 701, fall; 702, spring. 1 to 4 credits.

Hours to be arranged. Staff.

Asia—General Courses

401 Asian Studies Honors Course Fall. 4 credits.

Intended for seniors who have been admitted to the honors program.

Staff.

Supervised reading and research on the problem selected for honors work.

402 Asian Studies Honors: Senior Essay Fall or spring. 4 credits. Prerequisite: admission to the honors program.

The student, under faculty direction, prepares an honors essay.

403–404 Asian Studies Supervised Reading

Either or both terms. Credit to be arranged.

Prerequisite: permission of instructor. Open to majors and other qualified students.

Intensive reading under the direction of a member of the staff.

For complete descriptions of courses numbered 600 or above, consult the graduate faculty representative.

605–606 Master of Arts Seminar in East Asian Studies 605, fall; 606, spring. 2–4 credits.

Hours to be arranged. E. Gunn and staff.

703-704 Directed Research 703, fall; 704, spring.
Credit to be arranged.
Hours to be arranged. Staff.

Related Courses in Other Departments

Economics of Agricultural Development
(Agricultural Economics 464)

Food, Population, and Employment (Agricultural
Economics 660)

Communication in the Developing Nations
(Communication Arts 624)

**Seminar on Agricultural Development in
Southeast Asia** (International Agriculture 601)

**Applications of Sociology to Development
Programs** (Rural Sociology 751)

Architecture in Its Cultural Context (Architecture
667-668)

*The six courses listed above will count as College of
Arts and Sciences credit only for Asian studies
majors.*

Urban Anthropology (Anthropology 313)

Meaning Across Cultures (Anthropology 320)

Images of Exotics (Anthropology 325)

**Anthropological Approaches to the Study of
Buddhism in Asia** (Anthropology 619)

Politics of Industrial Societies (Government 348)

Political Role of the Military (Government 349)

Comparative Revolutions (Government 350)

[The United States and Asia (Government 387)
Not offered 1980-81.]

[The United States and Asia (Government 387)
Not offered 1980-81.]

Seminar in Comparative Communism
(Government 446)

[Policymaking Industrial Societies (Government
456-457) Not offered 1980-81.]

Field Seminar in International Relations
(Government 606)

Graduate Seminar in Comparative Communism
(Government 648)

Seminar in International Relations of Asia
(Government 687)

**Introduction to Asian Civilizations: Origins to
1600** (History 190)

**Introduction to Asian Civilizations in the Modern
Period** (History 191)

Introduction to Art History: Asian Traditions
(History of Art 280)

[Buddhist Art in Asia (History of Art 381) Not
offered 1980-81.]

[Studies in Indian and Southeast Asian Art
(History of Art 386) Not offered 1980-81.]

[Ceramic Art of Asia (History of Art 482) Not
offered 1980-81.]

[Problems in Asian Art (History of Art 580) Not
offered 1980-81.]

China — Area Courses

Traditional Chinese Society and Culture
(Anthropology 343)

Modern Chinese Society (Anthropology 344)

Chinese Government and Politics (Government
347)

[The Foreign Policy of China (Government 390)
Not offered 1980-81.]

[Readings on the Great Cultural Revolution
(Government 447) Not offered 1980-81.]

Chinese Political Readings (Government 448)

**[Capitalism and Communism: Chinese and
Japanese Patterns of Development** (Government
462) Not offered 1980-81.]

Politics of China (Government 645)

**The Thoughts of Mao Ze Dong, Marxism-Leninism
on Anarchism** (Government 651)

[China and the West before Imperialism (History
293) Not offered 1980-81.]

[Chinese Views of Themselves (History 294) Not
offered 1980-81.]

Early Warfare, East and West (History 360)

History of China up to Modern Times (History 393)

History of China in Modern Times (History 394)

**Undergraduate Seminar in Medieval Chinese
History** (History 492)

**[Self and Society in Late Imperial and
Twentieth-Century China** (History 493) Not offered
1980-81.]

**[Undergraduate Seminar: The First Chinese
Revolution, 1880-1930** (History 494) Not offered
1980-81.]

Chinese Historiography and Source Materials
(History 691)

[Problems in Modern Chinese History (History
694) Not offered 1980-81.]

Seminar in Medieval Chinese History (History
791-792)

Seminar in Modern Chinese History (History
793-794)

Art of China (History of Art 383)

Chinese Painting and Ceramics (History of Art
385)

Chinese Art of the T'ang Dynasty (History of Art
483)

[Studies in Chinese Painting (History of Art 486)
Not offered 1980-81.]

Problems in Chinese Art (History of Art 584)

Other courses dealing extensively with China are
Anthropology 322; Government 347, 348, 350, 387,
446, 456-457, and 687; History 190 and 191; History
of Art 280 and 580; and Architecture 667-668.

China — Language Courses

Basic Course (Chinese 101-102)

Cantonese Basic Course (Chinese 111-112)

Intermediate Chinese I (Chinese 201-202)

Chinese Conversation (Chinese 203-204)

Intermediate Cantonese (Chinese 211-212)

Intermediate Chinese II (Chinese 301)

Intermediate Chinese III (Chinese 302)

Chinese Conversation — Intermediate (Chinese
303-304)

Intermediate Cantonese II (Chinese 311-312)

FALCON (full-time intensive course, Chinese
161-162)

History of the Chinese Language (Chinese
401-402)

**[Linguistic Structure of Chinese: Phonology and
Morphology** (Chinese 403) Not offered 1980-81.]

[Linguistic Structure of Chinese: Syntax (Chinese
404) Not offered 1980-81.]

[Chinese Dialects (Chinese 405) Not offered
1980-81.]

[Chinese Dialect Seminar (Chinese 607) Not
offered 1980-81.]

China—Literature Courses

Introduction to Classical Chinese (Chinese
213-214)

Chinese Philosophical Texts (Chinese 313)

Classical Narrative Texts (Chinese 314)

T'ang and Sung Poetry (Chinese 402)

Readings in Modern Chinese Literature (Chinese
411-412)

Directed Study (Chinese 421-422)

Readings in Literary Criticism (Chinese 424)

Readings in Folk Literature (Chinese 430)

Seminar in Chinese Poetry and Poetics (Chinese
603)

Seminar in Folk Literature (Chinese 609)

Advanced Directed Reading (Chinese 621-622)

Japan — Area Courses

Japanese Culture and Society (Anthropology 345)

[Introduction to Japanese Economy (Economics
366) Not offered 1980-81.]

[Contemporary Japan (Government 100) Not
offered 1980-81.]

Politics in Contemporary Japan (Government 346)

Politics of Productivity: Germany and Japan
(Government 430)

**[Capitalism and Communism: Chinese and
Japanese Patterns of Development** (Government
462) Not offered 1980-81.]

History of Modern Japan (History 389)

Other courses dealing extensively with Japan are:
Anthropology 313; Government 348, 387, 446,
456-457, and 605; History 190, 191 and 192; History
of Art 280 and 580; and Architecture 667-668.

Japan — Language Courses**Basic Course (Japanese 101–102)****Japanese for Business Purposes (Japanese 141–142)****Accelerated Introductory Japanese (Japanese 121–122)****Intermediate Japanese I (Japanese 201–202)****Japanese Conversation (Japanese 203–204)****Intermediate Japanese I and Conversation (Japanese 205–206)****Intermediate Japanese II (Japanese 301–302)****Japanese Communicative Competence (Japanese 303–304)****Advanced Japanese (Japanese 401–402)****Linguistic Structure of Japanese (Japanese 404)****Oral Narration and Public Speaking (Japanese 407–408)****FALCON (full-time intensive course, Japanese 161–162)****Japan — Literature Courses****Introduction to Literary Japanese (Japanese 305–306)****Intermediate Literary Japanese (Japanese 405–406)****Directed Readings (Japanese 421–422)****Seminar in Modern Literature (Japanese 611)****Seminar in Classical Literature (Japanese 612)****Advanced Directed Readings (Japanese 621–622)****South Asia — Area Courses****Paleoanthropology of South Asia (Anthropology 678)****Architecture in Its Cultural Context (Architecture 667–668)****Seminar on Agricultural Development in Southeast Asia (International Agriculture 601)****Government and Politics of India (Government 300)****[India: A Political Experiment (Government 451) Not offered 1980–81.]****[Studies in Indian and Southeast Asian Art (History of Art 386) Not offered 1980–81.]****[India as a Linguistic Area (Linguistics 341) Not offered 1980–81.]****[Dravidian Structures (Linguistics 440) Not offered 1980–81.]****Indo-Aryan Structures (Linguistics 442)****Comparative Indo-European Linguistics (Linguistics 631–632)****Elementary Pali (Linguistics 640)****[Elementary Sanskrit (Linguistics 641–642) Not offered 1980–81.]****Seminar (Linguistics 700)****Directed Research (Linguistics 701–702)**

Other courses dealing extensively with South Asia are: Anthropology 425 and 628; Architecture 433; Asian Studies 250 and 351; Government 387, 605, and 687; History 190 and 191; History of Art 280, 386, and 580; Agricultural Economics 464; Communication Arts 624 and 626; and Rural Sociology 751.

South Asia — Language Courses**Basic Course (Hindi-Urdu 101–102)****Hindi Reading (201–202)****Composition and Conversation (Hindi 203–204)****Readings in Hindi Literature (Hindi 301–302)****Advanced Composition and Conversation (Hindi 303–304)****Advanced Hindi Readings (Hindi 305–306)****[History of Hindi (Hindi 401) Not offered 1980–81.]****Seminar in Hindi Linguistics (Hindi 700)****Basic Course in Sinhala (Sinhalese 101–102)****Sinhala Reading (Sinhalese 201–202)****Composition and Conversation (Sinhalese 203–204)****Basic Course (Tamil 101–102)****Basic Course (Telugu 101–102)****Telugu Reading (Telugu 201–202)****Southeast Asia — Area Courses****Geography and Appraisal of Soils and the Tropics (Agronomy 401)****History of Asian Architecture (Architecture 433)****Ethnographic Films (Anthropology 205)****Applied Anthropology (Anthropology 314 and Rural Sociology 355)****Meaning Across Cultures (Anthropology 320)****[Ethnology of Island Southeast Asia (Anthropology 334) Not offered 1980–81.]****Ethnology of Mainland Southeast Asia (Anthropology 335)****[Myth, Ritual, and Symbol (Anthropology 424) Not offered 1980–81.]****Ritual Structures and Cultural Pluralism (Anthropology 425)****Anthropological Approaches to the Study of Buddhism in Asia (Anthropology 619)****Southeast Asia: Readings in Special Problems (Anthropology 634–635)****[Political Anthropology: Culture and Revolution in Indonesia (Anthropology 628 and Government 647) Not offered 1980–81.]****Southeast Asian Literature in Translation (Asian Studies 379)****Southeast Asia Seminar: Malaysia (Asian Studies 601) Fall. 4 credits.**

C. E. R. Abraham, M. L. Barnett.

Southeast Asia Seminar: Indonesia (Asian Studies 602) Spring. 4 credits.
B. Anderson.**[Southeast Asia Seminar (Asian Studies 604; also International Agriculture 601, Philippine Agricultural Development) Not offered 1980–81.]****Southeast Asia Research Training Seminar (Asian Studies 676)****Directed Research (Asian Studies 703–704) 703: fall and spring; 704: fall and spring. Credit to be arranged.****Microeconomic Issues in Agricultural Development (Agricultural Economics 664)****[Economic Policy and Development in Southeast Asia (Economics 365) Not offered 1980–81.]****Public Policy and Economic Development (Economics 371/571)****[Economic Growth in Southeast Asia (Economics 678) Not offered 1980–81.]****[Government and Politics of Southeast Asia (Government 344) Not offered 1980–81.]****[Political Role of the Military (Government 349)****The United States and Asia (Government 387)****[Political Problems of Southeast Asia (Government 652) Not offered 1980–81.]****International Relations of Asia (Government 687)****Indochina and the Archipelago to the Fourteenth Century (History 395)****Southeast Asian History from the Fifteenth Century (History 396)****Historiography of Southeast Asia (History 695–696)****Seminar in Southeast Asian History (History 795)****Art in Landscape: The Traditional Arts in Southeast Asia (History of Art 106)****Introduction to Art History: Asian Traditions (History of Art 280)****[Studies in Indian and Southeast Asian Art (History of Art 386) Not offered 1980–81.]****[Traditional Arts in Southeast Asia (History of Art 488) Not offered 1980–81.]****[Problems of Art Criticism (History of Art 596) Not offered 1980–81.]****Seminar on Agricultural Development in Southeast Asia (International Agriculture 601)**
See also Asian Studies 604.**Administration of Agricultural and Rural Development (International Agriculture 603)****Special Studies of Problems of Agriculture in the Tropics (International Agriculture 602)****Comparative Methodology (Linguistics 404)****Sociolinguistics (Linguistics 405–406)****Comparative Thai (Linguistics 578)****Field Methods (Linguistics 600)****Old Javanese (Linguistics 651–652)**

Seminar in Southeast Asian Languages (Linguistics 653–654)

Malayo-Polynesian Linguistics (Linguistics 655–656)

Seminar in Austro-Asiatic Linguistics (Linguistics 657–658)

Directed Research (Linguistics 701–702)

Thal Dialectology (Linguistics 751)

Comparative Thal (Linguistics 752)

Tibeto-Burman Linguistics (Linguistics 753)

Independent Study in Music (Music 301–302)

Gamelan Ensemble (Music 445–446)

Rural Development and Cultural Change (Rural Sociology 355)

Subsistence Agriculture in Transition (Rural Sociology 357)

Peasants, Water, and Development (Rural Sociology 754)

Related Courses in Other Departments

Other courses dealing extensively with Southeast Asia are: Anthropology 306, 420, 611, 628; Agricultural Economics 660; Agronomy 401; Architecture 667–668; Asian Studies 250, 351, 352, 650; Business and Public Administration NCE 514 (also International Agriculture 603 and Government 692); Communication Arts 624, 626; Education 627, 628, 629; Government 348, 350, 605, 647, 692; History 190, 191; History of Art 482, 580; International Agriculture 600, 602, 603, 703; Nutritional Sciences 680, 695; and Rural Sociology 650.

Southeast Asia—Language Courses

Basic Course (Burmese 101–102)

Burmese Reading (Burmese 201–202)

Composition and Conversation (Burmese 203–204)

Advanced Burmese Reading (Burmese 301–302)

Basic Course (Cambodian 101–102)

Cambodian Reading (Cambodian 201–202)

Composition and Conversation (Cambodian 203–204)

Advanced Cambodian (Cambodian 301–302)

Directed Individual Study (Cambodian 401–402)

Structure of Cambodian (Cambodian 404)

Basic Course (Cebuano Bisayan 101–102)

Elementary Course (Indonesian 101–102)

Indonesian Reading (Indonesian 201–202)

Composition and Conversation (Indonesian 203–204)

Linguistic Structure of Indonesian (Indonesian 300)

Readings in Indonesian and Malay (Indonesian 301–302)

Advanced Indonesian Conversation and Composition (Indonesian 303–304)

Advanced Readings in Indonesian and Malay Literature (Indonesian 401–402)

Advanced Readings in Indonesian and Malay Literature (Indonesian 305–306)

FALCON (full-time intensive course, Indonesian 161–162)

Elementary Javanese (Javanese 131–132)

Intermediate Javanese (Javanese 133–134)

Intermediate Javanese Readings (Javanese 201–202)

Directed Individual Study (Javanese 203–204)

Basic Course (Tagalog 101–102)

Tagalog Reading (Tagalog 201–202)

Linguistic Structure of Tagalog (Tagalog 300)

Basic Course (Thai 101–102)

Thai Reading (Thai 201–202)

Composition and Conversation (Thai 203–204)

Advanced Thai (Thai 301–302)

Directed Individual Study (Thai 401–402)

Basic Course (Vietnamese 101–102)

Vietnamese Reading (Vietnamese 201–202)

Composition and Conversation (Vietnamese 203–204)

Advanced Vietnamese (Vietnamese 301–302)

Vietnamese Literature (Vietnamese 303–304)

Directed Individual Study (Vietnamese 401–402)

Astronomy

101 The Universe Beyond the Solar System Fall. 4 credits. Prerequisite: high school algebra. Lects, M W F 11:15; lab, M, T, or W 7:30–10 p.m. Y. Terzian.

An examination of the universe and our place in it, and the possible existence of life and intelligence elsewhere in the cosmos. The physical nature of stars, galaxies, and quasi-stellar sources. The birth, evolution, and death of stars and the formation of the chemical elements, including discussions of supernovae, pulsars, neutron stars, and black holes. The physical state, composition, and influence of the interstellar material on the evolution of our galaxy. Modern theories of the structure and evolution of the universe.

102 The Solar System and Earth Spring. 4 credits. Prerequisites: high school algebra and Astronomy 101 or permission of instructor.

Lec, M W F 11:15; lab, M, T, or W 7:30–10 p.m. Exams will be given in the evening. P. Gierasch. Formation of the solar system. Environments and internal structures of planets. Formation and structure of the earth and its atmosphere, and the evolution of the earth's surface and climate. Origin of life. The effects of civilization on our planet.

103 The Universe Beyond the Solar System Fall. 3 credits. This course does not satisfy the distribution requirement in physical sciences. Identical to 101 except for omission of the laboratory (see description above).

104 The Solar System and Earth Spring. 3 credits. This course does not satisfy the distribution requirement in physical sciences. Identical to 102 except for omission of the laboratory (see description above).

111 Theories of the World: Stars, Galaxies, and Cosmology Spring. 4 credits. Intended for engineering and physical sciences freshmen. Prerequisite: introductory calculus or coregistration in Mathematics 111 or 191.

Lecs, M W F 10:10; rec, one hour each week to be arranged; plus some evening observing periods. J. R. Houck.

The formation and evolution of stars. Supernovae, pulsars, quasars, and black holes. The interstellar medium. The structure and evolution of galaxies. Cosmology.

112 Theories of the World: The Solar System, Planets, and Life Fall. 4 credits. Intended for engineering and physical sciences freshmen. Prerequisite: introductory calculus or coregistration in Mathematics 111 or 191.

Lecs, M W F 10:10; rec, one hour each week to be arranged; and some evening labs to be arranged. S. Ostro, T. Gold.

The origin of the solar system. Celestial mechanics. The physics of planetary atmospheres, surfaces, and interiors. Spacecraft results. Prebiology and the origin of life. The detection of life elsewhere in the universe.

201 Our Home in the Universe Fall. 2 credits. No prerequisites.

T R 2:30. T. Gold. A general discussion of man's relation to the physical universe; the nature of space and time as understood in modern physics; the universe of galaxies and stars, and the particular system of planets and satellites encircling one average such star, our sun. The origin and evolution of our solar system, as revealed by modern planetary exploration. The great uncertainties that remain.

215 Information and Knowledge in Science and Engineering (also Arts and Sciences 200) Fall. 4 credits. No prerequisites.

T R 10:10–11:35. M. Harwit. Topics to be covered include the exact and probabilistic laws of nature; messages, information content, and entropy; the Heisenberg uncertainty principle as a fundamental limitation on what we can know about the behavior of physical systems; coding of messages, cryptography, unbreakable codes, error correcting codes; self-replicating machines; transmission of genetic information in biology; mutations and biological evolution; transmission, storage, and processing of information in machines and in animals; robots and artificial intelligence; transmission of information across the universe—astronomical data and communication with intelligent civilizations. Level of *Scientific American*.

332 Elements of Astrophysics Spring. 4 credits. Prerequisites: calculus; Physics 213. Physics 214 strongly recommended.

Lecs, M W F 11:15. S. Beckwith. An introduction to astronomy with emphasis on the application of physics to the study of the universe. Physical laws of radiation. Theories of the solar system. Distance, size, mass, and age of stars, galaxies, and the universe; stellar evolution and nucleosynthesis; interstellar matter and star formation. Supernovae, pulsars, and black holes. Galaxies and quasars. Introduction to cosmology. Intended for students interested in astronomy, physics, and engineering.

431 Introduction to Astrophysics and Space Sciences I Fall. 4 credits. Prerequisites: Physics 214 and 318 or their equivalent. There are no astronomy course prerequisites.

M W F 10:10. J. R. Houck, S. Beckwith. A systematic development of modern astrophysical concepts for physical science majors. The cosmic

distance scale; dynamics and masses of astronomical bodies; atomic and electromagnetic processes in space. Introduction to star formation, stellar structure, stellar atmospheres, and the interstellar medium. At the level of *Astrophysical Concepts* by Harwit.

432 Introduction to Astrophysics and Space Sciences II Spring. 4 credits. Prerequisite:

Astronomy 431 or permission of instructor.
M W F 10:10. M. Harwit, J. Cordes.

Formation of the chemical elements. Origin of the solar system; interstellar dust and gas, cosmic rays; stellar systems, clusters, galaxies and quasars. Cosmology. Exobiology. Emphasis is on the formation of stars, galaxies, and the solar system. At the level of *Astrophysical Concepts* by Harwit.

[433 The Sun Fall. Not offered 1980–81.]

[434 The Evolution of Planets Spring. Not offered 1980–81.]

440 Independent Study in Astronomy Fall or spring. 2–4 credits. Prerequisite: permission of instructor. Recommended: familiarity with the topics covered in Astronomy 332, 431, or 434.

Hours to be arranged. Staff.
Individual work on selected topics. A program of study is devised by the student and instructor.

[490 Senior Seminar Fall. Not offered 1980–81.]

509 General Relativity (also Physics 553) Fall. 4 credits. Prerequisite: knowledge of special relativity at the level of, for example, *Classical Mechanics* by Goldstein.

T R 8:30–9:55. S. Teukolsky.
A systematic introduction to Einstein's theory, with emphasis on modern coordinate-free methods of computation. Topics include: review of special relativity, modern differential geometry, foundations of general relativity, laws of physics in the presence of a gravitational field, experimental tests of gravitation theories. At the level of *Gravitation* by Misner, Thorne, and Wheeler.

510 Applications of General Relativity (also Physics 554) Spring. 4 credits. Prerequisite: 509.

T R 10:10–11:35. S. Teukolsky.
A continuation of Astronomy 509 with emphasis on applications to astrophysics and cosmology. Topics include: relativistic stars, gravitational collapse and black holes, gravitational waves, cosmology.

[511 High Energy Astrophysics Spring. Not offered 1980–81.]

516 Galactic Structure and Stellar Dynamics Spring. 4 credits.

T R 10:10–11:30. S. Shapiro.
The kinematics and distribution of stars in the solar neighborhood. The dynamical structure, composition, and evolution of our galaxy. Characteristics and classifications of galaxies and clusters of galaxies. Theory of N-body systems, stellar encounters, relaxation and stellar evaporation rates. Introduction to the Boltzmann and Fokker-Planck equations with applications. Theory of spiral structure. Relativistic star clusters; star clusters with massive black holes. Binary and rotating star systems.

[520 Radio Astronomy Fall. Not offered 1980–81.]

[521 Radio Astrophysics Spring. Not offered 1980–81.]

523 Signal Processing in Astronomy Spring. 4 credits. Prerequisites: mathematical background equivalent to undergraduate physical science curriculum; familiarity with FORTRAN programming.
T R 2:30–4. J. Cordes, S. Ostro.

Topics will include Fourier analysis of discrete and continuous time series, spectral analysis, parameter estimation, probability theory and stochastic processes with an orientation towards applications in

observational radio astronomy and astrophysics. Discussion of applications such as interferometry, image processing, scintillation theory, planetary radar, and pulsar studies. Course work will include applications on the IBM 370.

[525 Observational Techniques of Optical Astronomy Spring. Not offered 1980–81.]

555 Theory of the Interstellar Medium Fall. 4 credits.

M W F 2:30. E. Salpeter.
Summary of observational data; theories of ionization and thermal equilibrium of the gas; grain formation and destruction; cloud structure and star formation; interstellar effects of cosmic rays. (Will probably include some guest lectures by Prof. R. Lovelace.)

[560 Theory of Stellar Structure and Evolution (also Physics 667) Fall. Not offered 1980–81.]

570 Physics of the Planets Spring. 4 credits.

Hours to be arranged. C. Sagan.
Physics and chemistry of planetary atmospheres, surfaces and interiors; the roles of convective, conductive, and radiative transport; optical, infrared, radio, radar, and space-probe information; applications to exobiology and to the earth as a planet.

[571 Mechanics of the Solar System Spring. Not offered 1980–81.]

575 Radiative Transfer and Planetary Atmospheres Fall. 4 credits.

Hours to be arranged. P. Gierasch.
Introduction to radiative transfer. Scattering and line formation. Energy balance and thermal structure. Energy transport by motions; elements of circulation theory. Observations. At the level of *Radiative Transfer* by Chandrasekhar.

[579 Celestial Mechanics (also Engineering T&AM 672) Spring. Not offered 1980–81.]

620 Seminar: Advanced Radio Astronomy Fall. 2 credits.

Hours to be arranged. J. Cordes, F. Drake, S. Ostro, and Y. Terzian.
Advanced topics in radio astrophysics and radio astronomical data accumulation and processing methods.

[633 Seminar: Infrared Astronomy Spring. Not offered 1980–81.]

640 Advanced Study and Research Fall or spring. Credit to be arranged.

Hours to be arranged. Staff.
Guided reading and seminars on topics not currently covered in regular courses.

[660 Cosmic Electrodynamics (also Engineering A&EP 608) Spring. Not offered 1980–81.]

[671 Special Topics in Planetary Astronomy Fall. Not offered 1980–81.]

[673 Seminar: Current Problems in Planetary Fluid Dynamics Spring. Not offered 1980–81.]

[680 Seminar: Cosmic Rays and High-Energy Electromagnetic Radiation (also Physics 680) Spring. Not offered 1980–81.]

699 Seminar: Current Problems in Theoretical Astrophysics Fall. 3 credits. May be repeated for credit.

T R 10:10–11:35. S. Shapiro.
Study of the latest problems in theoretical astrophysics; content changes from year to year.

Burmese, Cambodian, and Cebuano (Bisayan)

See Modern Languages, Literatures, and Linguistics, p. 92.

Chemistry

Preliminary examinations for all courses may be given in the evening

103–104 Introduction to Chemistry 103, fall; 104, spring. 3 credits each term. Enrollment limited. Prerequisite for Chemistry 104: Chemistry 103. Recommended for students who have not had high school chemistry and for those needing a less mathematical course than Chemistry 207–208.

Lecs, M W 11:15 or 12:20; lab, T or R 8–11, or F 10:10–1:10, or M, W, or F 1:25–4:25. Prelims: 6:30 p.m. Oct. 16, Nov. 18, Mar. 17, and Apr. 23. Fall, H. A. Scheraga; spring, J. E. McMurry.

An introduction to chemistry with emphasis on the important principles and facts of inorganic and organic chemistry.

[200 Man in his Chemical Environment Fall.

3 credits. Prerequisites: 103–104 or 207–208. Enrollment limited. Offered alternate years. Not offered 1980–81.

Lec T R 12:20; rec, T 1:25 or R 10:10 or 1:25. The chemical aspects of the human environment, including the composition and properties of materials as these affect our environment. Chemical limitations on the balance between survival and quality of living.]

207–208 General Chemistry 207, fall; 208, spring. 4 credits each term. Enrollment limited.

Recommended for those students who will take further courses in chemistry. Prerequisite for 207: high school chemistry. Prerequisite for 208: Chemistry 207 or 103–104.

Lecs, fall, T R 9:05, 10:10, or 12:20; spring, T R 9:05 or 10:10. Lab: fall, T W R or S 8–11; F 10:10–1:10; M T W R or F 1:25–4:25; spring, M T W R or F 12:20–4:25 or S 8–12. Prelims: 6:30 p.m. Oct. 7, Nov. 11, Mar. 10, Apr. 21. Fall, R. C. Fay, M. J. Sienko; spring M. J. Sienko, L. Que.

The important chemical principles and facts are covered, with considerable attention given to the quantitative aspects and to the techniques important for further work in chemistry. Second-term laboratory includes a systematic study of qualitative analysis.

Note: Entering students exceptionally well prepared in chemistry may receive advanced placement credit for Chemistry 207–208 by demonstrating competence in the advanced placement examination of the College Entrance Examination Board or in the departmental examination given at Cornell before classes start in the fall.

215–216 General Chemistry and Inorganic Qualitative Analysis 215, fall; 216, spring. Fall,

4 credits; spring, 5 credits. Recommended for students who intend to specialize in chemistry or in closely related fields. Prerequisites: good performance in high school chemistry and physics and in mathematics SAT. Coregistration in a calculus course at the level of Mathematics 111 or 191 is required for students who have not taken high school calculus. Prerequisite for Chemistry 216: Chemistry 215. Enrollment limited.

Fall: lec, M W F 12:20; lab, M T W R, or F 1:25–4:25. Spring: lec or rec, M W F 12:20; two labs, M T 1:25–4:25, T R 10:10–1:10, W F 1:25–4:25, or R 1:25–4:25 and S 8–11. Prelims: 6:30 p.m. Sept. 25, Oct. 23, Nov. 18, Feb. 19, Mar. 17, Apr. 21. Fall, B. A. Baird, G. G. Hammes; spring, R. F. Porter.

An intensive systematic study of the laws and concepts of chemistry, with considerable emphasis

Biological Sciences

See p. 134.

on quantitative aspects. Second term includes systematics of inorganic chemistry. Laboratory work covers both qualitative and quantitative analysis.

251 Introduction to Experimental Organic Chemistry Fall. 2 credits. Recommended for nonchemistry majors. Prerequisite or corequisite: 253 or 357 or permission of instructor.

Lec, M or F 8 (all students attend first lecture); lab, M T W or R 1:25–4:25, or T or R 8–11.
D. B. Collum, B. Ganem.

An introduction to synthesis and the separation and handling of materials including applications of many types of chromatography, simple and fractional distillation, crystallization, extraction, and others.

252 Elementary Experimental Organic Chemistry Spring. 2 credits. Recommended for non-chemistry majors. Prerequisite: Chemistry 251.

Lec, M 8; lab, M, T, W, or R 1:25–4:25.
D. B. Collum.

A continuation of Chemistry 251.

253 Elementary Organic Chemistry Fall. 4 credits. Primarily for students in the premedical and biological curricula. Enrollment limited to 480 students. Prerequisite: Chemistry 104 with grade of C or better or Chemistry 208 or 216.

Lecs, M W F S 10:10; make-up lec may be given in the evening. J. R. Rasmussen.

The occurrence and properties of organic molecules and the mechanisms of organic reactions, including a brief introduction to the organic chemistry of biological systems, are studied.

Note: Premedical students should determine the entrance requirements of the particular medical school they wish to enter. Students may earn 6 credits by taking Chemistry 251–253 or 8 credits by taking Chemistry 253–301 or 253, 251, and 252.

287–288 Introductory Physical Chemistry 287, fall; 288, spring. 3 credits each term. Prerequisites: Chemistry 208 or 216 and Mathematics 111–112, or permission of instructor. Prerequisite for 288: Chemistry 287.

Lecs, M W F 9:05; rec, M, W, or F 1:25. Fall,
B. Widom; spring, P. L. Houston.

A systematic treatment of the fundamental principles of physical chemistry.

289–290 Introductory Physical Chemistry Laboratory 289, fall; 290, spring. 2 credits each term. Prerequisite for 290: Chemistry 289. Coregistration in 287–288 is required.

Lec, T or R 1:25; lab, M T W R or F 1:25–4:25. Fall,
J. R. Wiesenfeld; spring, E. R. Grant.

Quantitative and qualitative methods basic to the experimental study of physical chemistry.

300 Quantitative Chemistry Fall. 2 credits. Prerequisite: Chemistry 208 or advanced placement in chemistry.

Lec, F 12:20; lab, M, T, W, R, or F 1:25–4:25 or T R 8–11. Organizational meeting on first class day of semester, 12:20. G. H. Morrison.

Common quantitative procedures and techniques essential to laboratory work in the sciences are emphasized. The relationships between theories and applications are stressed.

301 Experimental Chemistry I Spring. 4 credits. Prerequisite: Chemistry 216 or 300, and 253 or 357 or 359. Concurrent registration in Chemistry 253 is not recommended.

Lecs, M W 8; 2 labs, M W 1:25–4:25 or T R 8–11, or T R 1:25–4:25. J. R. Rasmussen.

An introduction to synthesis and the separation and handling of materials, including applications of many types of chromatography, simple and fractional distillation, crystallization, extraction, and others.

302 Experimental Chemistry II Fall. 4 credits. Enrollment limited; preference given to chemistry majors. Prerequisite: Chemistry 301.

Lecs, M W 9:05; 2 labs, M W 1:25–4:25, T R 9–12, T R 1:25–4:25, or F 1:25–4:25 and S 9–12.

J. M. Burlitch, B. K. Carpenter.

Various aspects of qualitative and quantitative analysis of both inorganic and organic compounds, including optical spectroscopy, NMR, mass spectroscopy, GCMS, and electrochemical methods are surveyed.

303 Experimental Chemistry III Spring. 4 credits. Each lab limited to 18 students. Prerequisites: Chemistry 302, 389, 390, co-registration in the latter is permissible; knowledge of computer programming is essential.

Lecs, M W 9:05 (some weeks lec may be on F instead of W); 2 labs M W 1:25–4:25 or T R 8–11 or 1:25–4:25. R. E. Hughes, F. W. McLafferty.

An introduction to the techniques of vacuum line construction and operation; the principles and assembly of electronic measuring devices, optics, and kinetics.

357–358 Introductory Organic Chemistry 357, fall; 358, spring. 3 credits each term. Prerequisites: Chemistry 208 or 216 or advanced placement in chemistry. Concurrent registration in Chemistry 251 in the fall term and Chemistry 301 in the spring term is recommended. Prerequisite for Chemistry 358: Chemistry 357.

Lecs, M W F 9:05; optional rec may be offered. Fall,
J. Meinwald; spring, J. C. Clardy.

A systematic study of the more important classes of carbon compounds—reactions of their functional groups, methods of synthesis, relations, and uses.

359–360 Organic Chemistry I and II 359, fall; 360, spring. 4 credits each term. Enrollment limited. Recommended for students who intend to specialize in chemistry or closely related fields. Prerequisites: Chemistry 216, or 208 with a grade of B or better, or consent of instructor. Prerequisite for Chemistry 360: Chemistry 359.

Lecs, M W F 9:05; make-up lecs, W 7:30 p.m.
M. J. Goldstein.

A rigorous and systematic study of organic and organometallic compounds, their structures, the mechanisms of their reactions, and the ways that they are synthesized in nature and in the laboratory.

389–390 Physical Chemistry I and II 389, fall; 390, spring. 4 credits each term. Prerequisites: Mathematics 214, 215, 216, or ideally, 221–222; Physics 208, Chemistry 208 or 216 or permission of instructor. Prerequisite for Chemistry 390: Chemistry 389.

Lecs, M W F 10:10; rec and make-up lec, W 7:30 p.m. Exams: fall, R 8:40 p.m. Sept. 18, Oct. 9, Oct. 30, Nov. 16, and Dec. 11. Fall, R. Hoffmann; spring,
A. C. Albracht.

The principles of physical chemistry are studied from the standpoint of the laws of thermodynamics, kinetic theory, and quantum chemistry.

[404 Advanced Measurements Laboratory Fall. 4 credits. Prerequisite: Chemistry 303. Not offered 1980–81.

Lab, M T R 1:25–4:25; plus occasional evening lec. Alternate hours may be arranged if necessary.

Applications of modern experimental techniques in a variety of fields. Emphasis is on kinetics, spectroscopy, and electronics.]

[405 Techniques of Modern Synthetic Chemistry Spring. 4 credits. Enrollment limited. Prerequisite: Chemistry 302. Selection of students will be based on grades in Chemistry 301 and 302. With permission of the instructor, graduate students may perform a minimum of three two-week experiments on a prearranged schedule.

Lab time required: 12 hours each week including at least two 4-hour sessions in 2 sections (M W 1:25 or T R 1:25). First meeting will be at 4:30 p.m. on first class day of semester. Lec, first week only, at times to be arranged. Not offered 1980–81.

The syntheses of complex organic and inorganic molecules will be carried out with emphasis on the following techniques: vacuum line, high pressure, high temperature solid state, inert atmosphere, nonaqueous solvents, radioactive labeling, photochemical and electrochemical methods, solid phase peptide synthesis, and macro and micro techniques. Elementary glassblowing.]

421 Introduction to Inorganic Research Fall or spring. 2–4 credits. Prerequisites: Chemistry 303 and 389–390, or Chemistry 287–288, and Chemistry 289–290 with an average of B– or better, or permission of instructor.

Selected faculty.
Informal advanced laboratory and library work, planned in consultation with a staff member, preparing and characterizing inorganic substances and culminating in a written report.

443 Introduction to Analytical Research Fall or spring. 2–4 credits. Prerequisites: Chemistry 303 and 390 with an average of B– or better or permission of instructor.

Selected faculty.
Informal research in analytical chemistry involving both laboratory and library work.

461 Introduction to Organic Research Fall or spring. 2–4 credits. Enrollment limited to those having a record of B– or better in prerequisite courses. Prerequisites: Chemistry 302 and 358 or 360 or permission of instructor.

Selected faculty.
Informal research in organic chemistry involving both laboratory and library work.

477 Introduction to Research in Physical Chemistry Fall or spring. 2–4 credits. Prerequisites: Chemistry 390 with an average of B– or better and permission of instructor.

Selected faculty.
Informal laboratory and library work in physical chemistry, planned in consultation with a staff member.

498 Honors Seminar Spring. Noncredit. Admission by departmental invitation. See the *Announcement of Academic Information* for criteria for selection. Additional prerequisite or corequisites: outstanding performance in either (1) two coherent 4-credit units of research in a course such as Chemistry 421, 433, 461, or 477; or (2) one 4-credit unit in a course such as Chemistry 421, 433, 461, or 477 and summer research equivalent to at least 4 credits in the same subject.

R. E. Hughes.
Informal presentations and discussions of selected topics in which all students participate. Individual research is on advanced problems in chemistry under the guidance of a faculty member, culminating in a written report.

600 General Chemistry Colloquium Fall and spring. Noncredit. Required of all graduate students except those majoring in organic or bioorganic chemistry. Open to qualified juniors and seniors.
R 4:40.

A series of talks representative of all fields of current research interest in chemistry other than organic chemistry, given by research associates, faculty members, and distinguished visitors.

605 Advanced Inorganic Chemistry I: Symmetry and Structure Fall. 4 credits. Prerequisite: Chemistry 389–390 or equivalent or permission of instructor.

Lecs, M W F 11:15. L. Que.
This is the first of a three-term sequence. Symmetry and structure of discrete molecules, translational symmetry of arrays of molecules in crystals. Group theory at the level of Cotton's *Chemical Application of Group Theory*, Schonland's *Molecular Symmetry*, and Hall's *Group Theory and Symmetry in Chemistry*. Applications include molecular orbital theory,

hybridization, and molecular vibrations. Readings in the chemistry of nontransition elements at the level of Cotton and Wilkinson's *Advanced Inorganic Chemistry*.

606 Advanced Inorganic Chemistry II: Structure and Dynamics Spring. 4 credits. Prerequisite: Chemistry 605 or permission of instructor.

Lecs, M W F 9:05. R. C. Fay.
The second of a three-term sequence. The development of general background and systematics through which structure, stereochemistry, and reaction mechanism of inorganic and organometallic compounds can be understood and anticipated. Readings at the level of Coates, Green and Wade's *Organometallic Compounds* and Basolo and Pearson's *Inorganic Reaction Mechanisms*.

[607 Advanced Inorganic Chemistry III: Structure and Properties Spring. 4 credits. Prerequisite: Chemistry 605 or permission of instructor. Not offered 1980-81.

Lecs, M W F 11:15.
The third of a three-term sequence. Introduction to ligand field theory and solid-state structure and properties, at the level of Figgis' *Introduction to Ligand Fields*, Krebs' *Fundamentals of Inorganic Crystal Chemistry* and Sach's *Solid State Theory*. Readings in transition metal chemistry at the level of Cotton and Wilkinson's *Advanced Inorganic Chemistry*]

[622 Chemical Communication (also Biological Sciences 623) Fall. 3 credits. Intended primarily for research-oriented students. Limited to 30 students. Prerequisites: Chemistry 358, Biological Sciences 102, and Biochemistry 231. Offered alternate years. Not offered 1980-81.

Lecs, M W F 1:25. J. Meinwald, T. Eisner, W. Roelofs, and guest speakers.
The production, transmission, and reception of chemical signals in communicative interactions of animals, plants, and microorganisms. Communication involving insects is emphasized. Specific topics are treated, with varying emphasis on chemical, biochemical, neurobiological, ecological, and evolutionary principles.]

625 Advanced Analytical Chemistry I Fall. 4 credits. Open to undergraduates with permission of instructor. Prerequisite: Chemistry 288 or 390 or equivalents.

Lecs, M W F 8; exams, T 7:30 p.m. W. D. Cooke, F. W. McLafferty.
The application of molecular spectroscopy to chemical problems. Topics in ultraviolet, infrared, NMR, Raman, and mass spectroscopy are discussed.

[627 Advanced Analytical Chemistry II Spring. 3 credits. Primarily for graduate students. Prerequisite: Chemistry 288 or 390 or equivalent. Offered alternate years. Not offered 1980-81.

Lecs, T R 10:10; problem sessions and exams, T 7:30. F. W. McLafferty.
Modern analytical methods, including electron, Mössbauer, and Fourier spectroscopy; mass spectrometry; methods applicable to macromolecules; information theory.]

628 Advanced Analytical Chemistry III Spring. 3 credits. Primarily for graduate students. Prerequisite: Chemistry 288 or 390 or equivalents. Offered alternate years.

Lecs, T R 10:10. G. H. Morrison.
Modern trace, micro, and surface methods of analysis, including atomic spectrometry, solids mass spectrometry, activation analysis, microscopes, microprobes, and electron spectroscopy.

650-651 Organic and Organometallic Chemistry Seminar 650, fall; 651, spring. Noncredit. Required of all graduate students majoring in organic or bioorganic chemistry. Open to qualified juniors and seniors.

M 8:15 p.m.

A series of talks representative of all fields of current research interest in organic and organometallic chemistry, given by research associates, faculty members, and distinguished visitors.

665 Advanced Organic Chemistry Fall. 4 credits. Primarily for graduate students and upperclass undergraduates. Prerequisites: Chemistry 253 or 358 or 360 and 390 or equivalents or permission of instructor.

Lecs, M W F 12:20; make-up lectures and exams, W 7:30 p.m. B. K. Carpenter.
A survey of reaction mechanisms and reactive intermediates in organic chemistry. Applications of qualitative molecular orbital theory will be emphasized.

666 Synthetic Organic Chemistry Spring. 4 credits. Primarily for graduate students and upperclass undergraduates. Prerequisites: Chemistry 665 or permission of instructor.

Lecs, T R 8-9:30; an additional lec will be arranged. B. Ganem.
Modern techniques of synthesis; applications of organic reaction mechanisms to the problems encountered in rational multistep synthesis, with particular emphasis on modern developments in synthetic planning.

[668 Chemical Aspects of Biological Processes Fall. 4 credits. Prerequisites: Chemistry 358 or 360 and 390 or 288 or equivalents. Not offered 1980-81.

Lecs, M W F 10:10.
Biochemical systems, bioenergetics, enzymes, metabolic pathways, chemical evolution. This course forms the chemical basis for the graduate program in molecular biology.]

672 Enzyme Catalysis and Regulation Spring. 4 credits. Primarily for graduate students in chemistry and biochemistry. Prerequisites: Chemistry 358 or 360 and 390 or equivalents, and a course in general biochemistry.

Lecs, M W F 11:15 and occasionally W 7 p.m. G. G. Hammes.
Protein structure and dynamics, steady state and transient kinetics, binding isotherms, chemical modification enzymes, application of NMR, EPR, and fluorescence, acid-base catalysis, allosterism; discussion of specific enzymes to illustrate general principles.

[677 Chemistry of Nucleic Acids Spring. 4 credits. Primarily for graduate students. Prerequisites: Chemistry 358 or 360, and 390 or equivalents. S-U grades only. Offered alternate years. Not offered 1980-81.

Lecs, M W F 8. D. A. Usher.
Properties, synthesis, and reactions of nucleic acids.]

678 Thermodynamics Spring. 4 credits. Primarily for graduate students. Prerequisite: 288 or 390 or equivalents.

Lecs, T R 8:30-9:55; disc to be arranged. R. F. Porter.
Development of the general laws of equilibrium and nonequilibrium thermodynamics and investigation of their statistical basis. Applications to the study of physicochemical equilibrium and steady states in gases, liquids, solids, and liquid solutions.

681 Physical Chemistry III Fall. 4 credits. Prerequisites: Chemistry 288 or 390; Mathematics 214, 215, 216, 217, and Physics 208; or equivalents. Lecs, M W F 10:10, occasional lectures W 7:30 p.m. J. H. Freed.

An introduction to the principles of quantum theory and statistical mechanics, atomic and molecular spectra, and elementary valence theory. At the level of *Atoms and Molecules* by Karplus and Porter.

686 Physical Chemistry of Proteins Spring. 4 credits. Primarily for graduate students. Prerequisites: Chemistry 288 or 390 or equivalents.

Offered alternate years.

Lecs, M W F 8, S 11:15, and occasionally W 7:30 p.m. H. A. Scheraga.
Chemical constitution, molecular weight, and structural basis of proteins; thermodynamic, hydrodynamic, optical, and electrical properties; protein and enzyme reactions; statistical mechanics of helix-coil transition in biopolymers; conformation of biopolymers: protein folding.

700 Baker Lectures Fall, on dates to be announced. Noncredit.

R. N. Zare, Stanford University.
Distinguished scientists who have made significant contributions to chemistry present lectures for periods varying from a few weeks to a full term.

701-702 Introductory Graduate Seminar in Analytical, Inorganic, and Physical Chemistry

701, fall; 702, spring. Noncredit. Required of all first-year graduate students majoring in analytical, inorganic, physical, theoretical, and biophysical chemistry.
Hours to be arranged. F. W. McLafferty.

[716 Selected Topics in Advanced Inorganic Chemistry Fall. 3 credits. Prerequisite: Chemistry 390 or equivalent. S-U grades only. Not offered 1980-81.

Lecs, T R 12:20.
Topics vary.]

765 Physical Organic Chemistry I Spring. 4 credits. Primarily for graduate students. Prerequisite: Chemistry 665 or permission of instructor.

Lecs, M W F 11:15.
Continues and extends the approach of Chemistry 665 to more complicated organic reactions. Emphasis is on applications of reaction kinetics and isotope effects to gain an understanding of reaction mechanisms.

[766 Physical Organic Chemistry II Spring. 3 credits. Primarily for graduate students. Prerequisite: Chemistry 765 or permission of instructor. Not offered 1980-81.
Quantitative aspects of organic chemistry.]

[770 Selected Topics in Organic Chemistry Fall. 3 credits. Primarily for graduate students. Prerequisites: Chemistry 665-666 or permission of instructor. Not offered 1980-81.

Lecs, M W 11:15.
Topics vary.]

[774 Chemistry of Natural Products Spring. 3 credits. Primarily for graduate students. Prerequisites: Chemistry 665-666. Not offered 1980-81.

Lecs, T R 12:20.
Particular attention is devoted to methods of structure determination and synthesis as applied to selected terpenes, steroids, alkaloids, and antibiotics.]

780 Principles of Chemical Kinetics Fall. 4 credits. Prerequisite: Chemistry 681 or permission of instructor.

Lecs, M W F 9:05 and occasionally T 7 p.m. P. L. Houston.
Principles and theories of chemical kinetics; special topics such as fast reactions in liquids, enzymatic reactions, energy transfer, and molecular beams.

782 Special Topics in Biophysical and Bioorganic Chemistry Spring. Noncredit. Primarily for graduate students.

Lecs, T R 11:15. Dates to be announced.
Topics, which are presented by distinguished visitors, vary from year to year.

789 X-ray Crystallography Spring; offered only when sufficient registration warrants. 4 credits. Prerequisite: Chemistry 288 or 390 or permission of instructor.

Hours to be arranged. J. C. Clardy.
A beginning course in the application of x-ray crystallography to structural chemistry. Topics include symmetry properties of crystals, diffraction of x-rays by crystals, interpretation of diffraction data and refinement of structures. The chemical information available from a diffraction experiment is stressed and theoretical aspects are illustrated by conducting an actual structure determination as a classroom exercise. At the level of Ladd and Palmer's *Structure Determination by X-ray Crystallography*.

793 Quantum Mechanics I Fall. 4 credits.
Prerequisites: Chemistry 681, coregistration in Mathematics 421, and Physics 431 or equivalents or permission of instructor.

Lecs, T R S 9:05. A. C. Albrecht.
Schrödinger's equation, wave packets, uncertainty principle, WKB theory, matrix mechanics, orbital and spin angular momentum, exclusion principle, perturbation theory, variational principle, Born-Oppenheimer approximation. At the level of Bohm's *Quantum Theory*.

794 Quantum Mechanics II Spring. 4 credits.
Prerequisites: Chemistry 793 or equivalent and coregistration in Physics 432 and Mathematics 422, or permission of instructor.

Lecs, M W F 10:10. J. H. Freed.
Time-dependent phenomena in quantum mechanics and interaction with radiation. Spectroscopy. Elementary theory of ESR and NMR. Electronic structure of atoms and molecules.

796 Statistical Mechanics (also Physics 562) Spring. 4 credits. Primarily for graduate students.
Prerequisite: Chemistry 793 or equivalent.

Lecs, T R 8:30-9:50. M. E. Fisher.
Thermodynamic assemblies; Legendre transformation. Ergodic and information theory ideas. Ensembles and partition functions; equivalences and fluctuations; indistinguishability. Thermodynamic properties of ideal gases and crystals; Third Law; chemical equilibria. Imperfect gases; correlation functions and their applications. Ideal paramagnets. Ising models and lattice gases. At the level of Kubo's *Statistical Mechanics*.

798 Selected Topics in Physical Chemistry Spring. 3 credits.

Lecs, T R S 9:05. R. Hoffmann.
Topics vary. In spring 1981 the topic will be the electronic structure of organic, organometallic, and inorganic molecules.

Chinese

See Department of Asian Studies, p. 55, and Modern Languages, Literatures, and Linguistics, p. 92.

Classics

Classical Civilization

Knowledge of Greek or Latin is not needed for these courses.

100 Word Power: Greek and Latin Elements in the English Language Fall. 3 credits.
T R 10:10-11:25. G. M. Messing.

This course gives the student with no knowledge of Classical languages an understanding of how the Greek and Latin elements, which make up over half our English vocabulary, operate in both literary and scientific English usage. Attention is paid to how words acquire their meaning and to enlarging each student's working knowledge of vocabulary and grammar.

109 An Introduction to Rhetoric Spring. 3 credits.
M W F 9:05. F. M. Ahl.

Good writing demands an ear sensitive to the subtleties and nuances of the spoken language as well as a knowledge of the conventions of written usage. Many literary texts, such as plays, demand the human voice for their fullest realization. This course is designed to develop practical skills in many aspects of oral and written communication, using ancient and modern authors as models. Live readings and oral presentations will be an important part of this course, as well as the usual (and some unusual) exercises in writing.

118 The Greek Image of Man Spring. 3 credits.
Freshman Seminar.
T R 9:05-10:20. P. T. Mitsis.

An examination of the mystic, tragic, and philosophical views of man presented in Homer, Hesiod, the Pre-Socratics, Aeschylus, Sophocles, Euripides, Plato, Aristotle, Epicurus, and the Stoics.

119.1 Freshman Seminar in Greek Literature Fall and spring. 3 credits.
M W F 11:15. Fall, S. B. Rogers; spring, Y. R. Perez.
Topics for both semesters will be announced in the Freshman Seminar supplement.

119.2 Freshman Seminar in Greek Literature Fall and spring. 3 credits.

M W F 9:05. Fall, P. L. Corrigan; spring, B. Heiden.
Topic for fall: Love, sex, and family life in ancient Greece. This course examines Greek views on human sexuality and sex roles. We shall look for evidence of these views in the art, mythology, and literature of ancient Greece, as well as in its social, cultural, and legal institutions. Numerous authors from most periods of Hellenic antiquity will be read in translation, in addition to several modern theorists on the psychology of love and sexuality. Special attention will be given to the roles of women in Greek society and to the origins of modern sexual morality. The spring topic will be announced in the Freshman Seminar supplement.

120 Life Under the Caesars: The Satirist's View Fall. 3 credits. Freshman Seminar.
M W F 12:20. S. C. Farrand.

The most memorable sketches of everyday and not-so-everyday life in imperial Rome (in fact the source of many of our stereotypes) are found in the varied works we call satire. With the texts commonly included in this genre and excerpts drawn from drama, narrative, and epic as primary evidence, this course will investigate different authors' characterizations of recurrent themes, such as: love as a constructive and destructive force; the ramifications of an expanding empire; and political leaders as a continuing, if precarious, inspiration in describing society's ills.

150 The Myths of Greece and Rome Fall. 3 credits. T R 11:15-12:30. F. M. Ahl.
An introductory course on the myths of Greece and Rome for students interested in acquiring a basic background in Greek and Roman myths and legends as they occur in ancient literature and art. It should serve as a foundation for those interested in pursuing various theories as well as for those seeking to improve their grasp of mythical motifs in later European and American literature. But the primary purpose will be to acquaint the student with the "stories" themselves, and, where appropriate, to compare Greek and Roman myths with those of the Celts and other European peoples.

211 The Greek Experience Fall. 3 credits.
M W F 11:15. F. M. Ahl.
An introduction to the literature and thought of ancient Greece with emphasis on their oral and dramatic presentation and intellectual and visual contexts. There will be analysis of tragedy and comedy, satire, and epic and lyric poetry; also selected prose works, augmented by films, slides, play readings, and individual student interpretations.

212 The Roman Experience Spring. 3 credits.
M W F 11:15. J. R. Ginsburg.
An introduction to the civilization of the Romans as expressed in their literature, art, and social and political institutions. This course will examine not only the intellectual life of the Romans, but what it meant for men and women of all social classes to live in the Roman world. Selected readings in translation of works of literature, history, and philosophy, supplemented by slides and other visual materials.

220 Introduction to Classical Archaeology (also History of Art 220)
See description below under "Classical Archaeology."

[221 Minoan-Mycenaean Art and Archaeology (also History of Art 221)] Not offered 1980-81.]

[222 The Individual and Society in Classical Athens] Not offered 1980-81.]

[224 Greek Philosophy] Not offered 1980-81.]

[225 Hellenistic and Roman Philosophy] Not offered 1980-81.]

226 The Genius of Christianity Fall. 3 credits.
T R 2:30-3:45. J. J. O'Donnell.
An evocation of the spirit of the Christian religion over the course of its history. Lectures and class discussions will examine four major themes: New Testament, monasticism, the Reformation, and modernism in theology. Authors read will include theologians, apologists, poets, and mystics from all periods.

232-233 Archaeology in Action I and II
See description below under "Classical Archaeology."

[236 Greek Mythology (also Comparative Literature 236)] Not offered 1980-81.]

[237 Greek and Roman Mystery Religions] Not offered 1980-81.]

238 The Ancient Epic Spring. 3 credits.
M W F 1:25. A. Edwards.
A close reading of the Homeric epics and Vergil's *Aeneid*. The *Iliad* and the *Odyssey* will be considered as oral poetry and in terms of their place in a traditional society, but with reference to modern interpretations. The *Aeneid* will be read as a major rewriting of Homer for a new audience.

245 Greek and Roman Historians Spring. 3 credits.
M W F 12:20. J. R. Ginsburg.
Study of historical writing in antiquity through selected readings (in translation) from the Greek and Roman historians. Among the topics to be examined are the historian's task as understood by the ancients; the method, narrative technique, and accuracy of the Greek and Roman historians; their attitudes to the events which they relate.

[270 Cicero and His Age (also History 270)] Not offered 1980-81.]

[300 Greek and Roman Drama (also Comparative Literature 300)] Not offered 1980-81.]

[304 Roman Law] Not offered 1980-81.]

309 Dendrochronology of the Aegean
See description below under "Classical Archaeology."

320 Arts and Monuments of Athens (also History of Art 320)

See description below under "Classical Archaeology."

[321 Archaeology of Cyprus (also History of Art 321) Not offered 1980–81.]

[322 Greeks and Their Eastern Neighbors Not offered 1980–81.]

323 Painting in the Greek and Roman World (also History of Art 323)

See description below under "Classical Archaeology."

[325 Greek Vase Painting (also History of Art 325) Not offered 1980–81.]

[326 Art and Archaeology of Archaic Greece (also History of Art 326) Not offered 1980–81.]

[327 Greek and Roman Coins (also History of Art 327) Not offered 1980–81.]

[329 Greek Sculpture (also History of Art 329) Not offered 1980–81.]

[330 Art in Pompeii: Origins and Echoes (also History of Art 330) Not offered 1980–81.]

[331 Greek Foundations of Western Literature (also Comparative Literature 331) Not offered 1980–81.]

[333 Latin Foundations of Western Literature (also Comparative Literature 333) Not offered 1980–81.]

[336 Foundations of Western Thought: Plato and His Influence Not offered 1980–81.]

[337 Ancient Philosophy of Science Not offered 1980–81.]

[339 Ancient Wit: An Introduction to the Theory and Form of Comic and Satiric Writing in Greece and Rome (also Comparative Literature 339) Not offered 1980–81.]

[363 Women in Classical Greece and Rome (also Women's Studies 363) Not offered 1980–81.]

[365 Cicero and His Age (also History 365) Not offered 1980–81.]

[426 Augustine Not offered 1980–81.]

[428 The Church of the Fathers Not offered 1980–81.]

[430 Genre and Period in Greek and Roman Literature (also Comparative Literature 430) Not offered 1980–81.]

[610 Language of Myth (also Anthropology 610) Not offered 1980–81.]

629 Seminar in Classical Archaeology

See description below under "Classical Archaeology."

[630 Seminar in Classical Greek Archaeology Not offered 1980–81.]

711–712 Independent Study for Graduate Students

Greek

101 Greek for Beginners Fall or spring. 4 credits. Fall: M T W F 12:30, P. T. Mitsis. Spring: M T W F 12:20, A. T. Edwards.

Introduction to Attic Greek. Designed to enable the student to read the ancient authors as soon as possible.

103 Attic Greek Fall or spring. 4 credits. Prerequisite: Classics 101 or equivalent.

Fall: M T W F 12:20, J. E. Coleman. Spring: M T W F 12:20, P. T. Mitsis.

[111–112 Modern Greek Not offered 1980–81.]

201 Attic Authors Fall. 3 credits. Prerequisite: Classics 103 or equivalent. M W F 12:20.

Plato's *Apology* and other selected readings.

203 Homer Spring. 3 credits. Prerequisite: Classics 103 or equivalent.

M W F 9:05. Readings in the Homeric epic.

[204 Plato Not offered 1980–81.]

[209–210 Greek Composition Not offered 1980–81.]

[301 Greek Historians Not offered 1980–81.]

[302 Greek Tragedy Not offered 1980–81.]

[305 Attic Comedy Not offered 1980–81.]

306 Greek Melic, Elegiac, and Bucolic Poetry Spring. 4 credits. Prerequisite: Classics 203 or 204 or equivalent.

T R 10:10–11:25. G. M. Kirkwood.

307 Plato Fall. 4 credits. Prerequisite: Classics 203 or 204 or equivalent. M W F 9:05. P. T. Mitsis.

308 New Testament Greek Fall. 4 credits. Prerequisite: two terms of 200-level Greek or permission of instructor.

T R 12:20–1:35, W 2:30–3:30. J. J. O'Donnell. Readings in New Testament texts (1980: *Mark and John*) discussed in seminar format, with one session a week devoted exclusively to problems with language and translation exercises. Meets jointly twice a week with Comparative Literature 429, for which students without reading knowledge of Greek should register.

[310 Greek Undergraduate Seminar Not offered 1980–81.]

401–402 Independent Study Limited to qualified majors.

[417 Advanced Readings in Greek Literature Not offered 1980–81.]

[418 Advanced Readings in Greek Literature: Hesiod Not offered 1980–81.]

419 Advanced Greek Composition Fall. 2 credits. Prerequisite: Classics 209–219 or equivalent. Hours to be arranged. G. M. Messing.

421 Advanced Readings in Greek Orators Spring. 4 credits.

T R 1:25–2:40. G. M. Kirkwood.

[442 Greek Philosophy Not offered 1980–81.]

671 Graduate Seminar in Greek Literature: The Political Structure of Classical Athens Fall. 4 credits.

T 3–5. K. Clinton, L. Abel. The basic work to be discussed will be the Aristotelian *Athenaion Politeia*, which outlines the history of the political constitution and describes the actual structure of the state in the second half of the fourth century. In addition, functions and activities of the Athenian state will be illustrated, as much as possible, through epigraphic and other historical documents.

672 Graduate Seminar in Greek Literature: Pindar and Choral Lyric Spring. 4 credits. R 3–5. G. M. Kirkwood.

681 Patristic Seminar Fall. 4 credits. F 2:30–4:30. J. J. O'Donnell. Augustine, *Confessions*.

701–702 Independent Study for Graduate Students

Latin

105 Latin for Beginners Fall. 4 credits. M T W F 8, D. T. McGuire; M T W F 10:10, B. Heiden; M T W F 1:25, Y. R. Perez.

An introductory course in the essentials of the Latin language, designed for rapid progress toward reading the principal Latin writers.

106 Elementary Latin Spring. 4 credits. Prerequisite: Classics 105 or placement by departmental examination.

M T W F 8, D. J. McGuire; M T W F 10:10, P. Kirkwood; M T W F 1:25, S. C. Farraud. A continuation of Classics 105, using readings from various authors.

107 Intensive Latin Spring. 7 credits. M T W R F 8, plus an additional session to be arranged. P. Kirkwood.

The course work of Classics 105 and 106 is combined in one term.

108 Latin in Review Fall. 3 credits. Prerequisite: placement by departmental examination. M W F 11:15.

205 Intermediate Latin Fall. 3 credits. Prerequisite: Classics 106 or 108 or placement by departmental examination.

Sec 1, M W F 10:10; sec 2, M W F 1:25. J. R. Ginsburg.

Section 2: Reading of Sallust's *The Conspiracy of Catiline* with attention to narrative techniques and the historical background.

[207 Catullus Not offered 1980–81.]

[208 Roman Drama Not offered 1980–81.]

216 Vergil Spring. 3 credits. Prerequisite: one term of 200-level Latin. M W F 1:25. W. R. Johnson.

Selections from Vergil's *Aeneid* will be read with emphasis on Vergil's use of the epic tradition, his own poetic milieu, his poetic techniques, and his relation to the politics of his time.

241 Latin Composition Fall. 2 credits. Prerequisite: Classics 106 or 108 or equivalent. R 1:25, and one hour to be arranged. K. Clinton.

242 Latin Composition Spring. 2 credits. Prerequisite: Classics 241 or permission of instructor. T R 2:30–3:45.

[312 Latin Undergraduate Seminar Not offered 1980–81.]

314 The Augustan Age Fall. 4 credits. Prerequisite: two terms of 200-level Latin. M W F 10:10. W. R. Johnson.

[315 Roman Satire Not offered 1980–81.]

[316 Roman Philosophical Writers Not offered 1980–81.]

[317 Roman Historiography Not offered 1980–81.]

[318 Roman Elegy: Tibullus, Propertius, Ovid Not offered 1980–81.]

[319 Readings in Cicero (also History 319) Not offered 1980–81.]

[366 Late Latin Not offered 1980–81.]

368 Medieval Latin Literature Fall. 4 credits.

Prerequisite: one term of 200-level Latin or permission of instructor.

M 2:30-4:30. J. J. O'Donnell.

Introduction to medieval Latin language and literature. Readings in 1980 will concentrate on poetry, liturgy, and scripture.

411 Advanced Readings in Latin Literature Fall.

4 credits. For advanced undergraduates and graduate students. Prerequisite: two terms of 300-level Latin or permission of instructor.

M 11:15. J. R. Ginsburg.

412 Advanced Readings in Latin Literature

Spring. 4 credits. For advanced undergraduates and graduate students. Prerequisite: two terms of 300-level Latin or permission of instructor.

T R 11:15-12:30. F. M. Ahl.

[441 Advanced Latin Composition Not offered 1980-81.]**451-452 Independent Study** Fall or spring. Credit to be arranged. Limited to qualified majors.**[460 The Latin Poems of Milton** Not offered 1980-81.]**679 Seminar: Horace's Epistles** Fall. 4 credits.

R 3-5. W. R. Johnson.

680 Seminar: Tacitus Spring. 4 credits.

T 3-5. J. R. Ginsburg.

751-752 Independent Study for Graduate Students**Classical Archaeology**

The following courses may be used toward satisfaction of the intercollegiate concentration in archaeology, see Archaeology, p. 53, and above, under "Classical Civilization," for other courses dealing with Classical art and architecture.

[200 Mediterranean Archaeology (also Ancient Mediterranean Studies 200 and Near Eastern Studies 280) Not offered 1980-81.]**[206 Rise of Classical Greece** Not offered 1980-81.]**220 Introduction to Classical Archaeology (also History of Art 220)** Fall. 3 credits.

M W F 10:10. J. E. Coleman.

Classical Archaeology is the study of the material culture of the ancient Greeks and Romans. This course, while providing a general framework for an understanding of the complexities of this culture, concentrates for the most part on specific subject matter. Subjects are chosen for their value in illustrating specific questions about the past and the process by which scholars seek to answer these questions. They vary somewhat from year to year but may include among others: architecture, painting, sculpture, the development of writing, burial customs, coins. The subjects are examined from both descriptive and interpretive points of view. Descriptive methods are studied along with the actual subject matter. From the interpretive point of view, questions are raised for discussion concerning such matters as development of technology and art, ancient and modern theories of aesthetics, and the interrelationship between material culture and the literature and history of the Greeks and Romans. Students are given access to antiquities and casts of ancient works of art in the Cornell collections, and they are expected to write one paper involving both description and interpretation.

[221 Minoan-Mycenaean Art and Archaeology (also History of Art 221) Not offered 1980-81.]**[222 The Individual and Society in Classical Athens** Not offered 1980-81.]**232-233 Archaeology in Action I and II** 232, fall; 233, spring. 3 credits each term. Prerequisites: Archaeology 100, Classics 220, or permission of the instructor.

Lec, M 2:30; 2 labs to be arranged. P. I. Kuniholm. Objects from the Classical, Hellenistic, and Roman periods are "dug" out of Cornell basements, identified, cleaned, restored, catalogued, and photographed and are considered in their appropriate historic, artistic, and cultural contexts.

309 Dendrochronology of the Aegean Fall or spring. Variable credit. Limited to 10 students. Prerequisite: permission of the instructor.

Lec, M 12:20; 2 labs to be arranged. P. I. Kuniholm. Participation in a research project of dating modern and ancient tree ring samples from the Aegean and Mediterranean. Supervised reading and laboratory work. A possibility exists for summer fieldwork in Greece or Turkey.

320 Arts and Monuments of Athens (also History of Art 320) Spring. 4 credits.

M W F 2:30. A. Ramage.

[321 Archaeology of Cyprus (also History of Art 321) Not offered 1980-81.]**[322 Greeks and Their Eastern Neighbors** Not offered 1980-81.]**323 Painting in the Greek and Roman World (also History of Art 323)** Spring. 4 credits.

M W F 9:05. A. Ramage.

[325 Greek Vase Painting (also History of Art 325) Not offered 1980-81.]**[326 Art and Archaeology of Archaic Greece (also History of Art 326)** Not offered 1980-81.]**[327 Greek and Roman Coins (also History of Art 327)** Not offered 1980-81.]**[329 Greek Sculpture (also History of Art 329)** Not offered 1980-81.]**[330 Art in Pompeii: Origins and Echoes (also History of Art 330)** Not offered 1980-81.]**350 The Arts of the Roman Empire (also History of Art 322)** Fall. 3 credits.

M W F 9:05. A. Ramage.

629 Seminar in Classical Archaeology Fall. 4 credits.

W 3-5. J. E. Coleman.

In 1980 the seminar will focus on the shaft graves at Mycenae and will examine the evidence from the shaft graves for mainland continuity and for influences from Crete, the Cycladic islands, and abroad.

[630 Seminar in Classical Greek Archaeology Not offered 1980-81.]**Related Courses in Other Departments****[The Ancient City: Plato and Machiavelli (History 261)** Not offered 1980-81.]**The Emergence of Greek Democracy (History 265)****The Roman Republic (History 267)****[Rome of the Caesars (History 268)** Not offered 1980-81.]**[Archaic Greece, 776-500 B.C. (History 450)** Not offered 1980-81.]**[Greece from Cleisthenes to Cleon, 514-429 B.C. (History 452)** Not offered 1980-81.]**[Thucydides and the Peloponnesian War, 432-404 B.C. (History 453)** Not offered 1980-81.]**[Greece in the Age of Lysander and Agesilaus, 410-360 B.C. (History 454)** Not offered 1980-81.]**[Philip of Macedon and Alexander the Great (History 455)** Not offered 1980-81.]**[Roman Imperialism (History 460)** Not offered 1980-81.]**The Roman Revolution (History 461)****[The High Roman Empire (History 462)** Not offered 1980-81.]**[Decline and Fall of the Roman Empire (History 463)** Not offered 1980-81.]**[Science in Classical Antiquity (History 481-482)** Not offered 1980-81.]**[Social and Economic History of Ancient Rome (History 561)** Not offered 1980-81.]**[Roman Africa (History 562)** Not offered 1980-81.]**[Graduate Seminar in Ancient Classical History (History 661)** Not offered 1980-81.]**[Numismatics (History of Art 424)** Not offered 1980-81.]**[Ancient Thought (Philosophy 210)** Not offered 1980-81.]**Ancient Philosophy (Philosophy 211)** Fall.**[Plato (Philosophy 309)** Not offered 1980-81.]**Aristotle (Philosophy 310)** Spring.**[Topics in Ancient Philosophy (Philosophy 314)** Not offered 1980-81.]**Plato and Aristotle (Philosophy 413)** Spring.**Ancient Philosophy (Philosophy 611)** Fall.**The Jews of the Ancient and Muslim Near East: 450 B.C.E. -1204 C.E. (Near Eastern Studies 244)****The Jews of the Christian West: 476-1948 (Near Eastern Studies 245)****[Ancient Seafaring (Near Eastern Studies 249)** Not offered 1980-81.]**[Introduction to Biblical Archaeology (Near Eastern Studies 285)** Not offered 1980-81.]**Folklore in the Ancient Near East (Near Eastern Studies 384)****[Interconnections in the Eastern Mediterranean World in Antiquity (Near Eastern Studies 385)** Not offered 1980-81.]**[Archaeology of the Ancient Near East (Near Eastern Studies 387 and Archaeology 310)** Not offered 1980-81.]**[Archaeology of Ancient Egypt (Near Eastern Studies 388)** Not offered 1980-81.]**[Seminar in Syro-Palestinian Archaeology (Near Eastern Studies 481)** Not offered 1980-81.]**Great Books (Comparative Literature 201)****Comedy (Comparative Literature 312)**

Comparative Literature

100-level courses See Freshman Seminar brochure.

201–202 Great Books 201, fall; 202, spring. 4 credits. Comparative Literature 201 is not a prerequisite to 202.

Fall, M W F 10:10, W. J. Kennedy. Spring, T R 2:30–3:45, T. Bahti.

A reading each semester of seminal texts that represent and have often shaped Western culture, and ought to be part of every college student's education. By analyzing, interpreting, and evaluating them the course will develop essential critical reading abilities. 201: selections from the Bible, Homer, Plato, Virgil, Dante, Shakespeare, and Cervantes. 202: selections from Goethe, Wordsworth, Stendhal, Baudelaire, Proust, Rilke, Brecht, and others.

295 Culture as Semiotic System Fall. 4 credits.

T R 12:20–1:35, J. Culler.

Adopting the semiotic perspective, we will study culture as a series of systems of convention or sign systems. Readings will focus on phenomena such as literature, advertising, schizophrenia, fashion, food, and tourism. No previous knowledge assumed.

310 Introduction to Psychopathological Texts Spring. 4 credits.

T R 12:20–1:35, S. L. Gilman.

A survey of the theories of language and thought disruption in schizophrenia (from the nineteenth century through Bateson and Laing) as well as a close reading of major texts (published and unpublished) written by schizophrenics (including the Schreber case).

312 Comedy Spring. 4 credits.

M W F 12:20, W. J. Kennedy.

Discussion of comic styles (classical, colloquial, improvisational, absurd) and modes of comedy (satire, romance, farce, grotesque) in drama and narrative fiction from Aristophanes to Nabokov, with special attention to Chaucer, Rabelais, Molière, Shaw, and Ionesco.

326 Christianity and Judaism Spring. 4 credits. Not open to freshmen.

M W F 11:15, C. M. Carmichael.

A study of the New Testament as a product of first-century Palestinian and Hellenistic Judaism. Other text (also in translation): *Passover Haggadah*.

328 Literature of the Old Testament Fall. 4 credits. Not open to freshmen.

M W F 11:15, C. M. Carmichael.

Analysis of selected material in translation.

343 Medieval Literature Fall. 4 credits.

M W F 12:20, R. E. Kaske.

Analysis and interpretation of great medieval literary works in translation. Though readings will vary somewhat from year to year a typical program would be *Beowulf*; *Nibelungenlied*; *Njáls saga*; a romance of Chrétien; Wolfram's *Parzival*; Gottfried's *Tristan*; and/or *Sir Gawain and the Green Knight*.

[344 Medieval Literature; Dante in Translation (also Italian 334) 4 credits. G. Mazzotta. Not offered 1980–81.]

352 Classic and Renaissance Drama (also Theatre Arts 325) Fall. 4 credits.

T R 2:30–3:45, T. Murray

Readings in comparative drama from the Greeks to Shakespeare and Corneille, including such dramatists as Aeschylus, Sophocles, Aristophanes, Calderón, Lope de Vega, Shakespeare, Jonson, and Corneille. Attention will be given to the development of early dramatic theory and to the relation between text and performance.

353 European Drama, 1660 to 1900 (also Theatre Arts 326) Spring. 4 credits.

T R 10:10–11:25, S. Williams.

354 Modern Drama (also Theatre Arts 327) Spring. 4 credits. M W F 1:25, A. Caputi.

356 The Literature of Europe in the Renaissance Fall. 4 credits.

M W F 10:10, C. Levy.

Renaissance readings mainly in the tradition of Christian humanism: the work of such authors as Petrarch, Castiglione, Machiavelli, Erasmus, More, Montaigne, Marlowe, Shakespeare, and Milton, with introductory readings in Augustine's *Confessions*.

357 The Literature of Europe Since 1800 Spring. 4 credits.

M W F 9:05, T. L. Jeffers.

A study of European writers' search for values, with emphasis on forms and themes peculiar to the modern tradition. Attention to developing students' abilities to speak to each other in discussion and in essays. Probable reading list: Stendhal, *The Red and the Black*; James, *The Ambassadors*; Mann, *Dr. Faustus*; Proust, *Swann's Way*; Dostoevsky, *Brothers Karamazov*; Kafka, *The Castle*.

359 Being, God, Mind: Humanistic Revolutions From Plato to Vico (also Romance Studies 459) Fall. 4 credits.

T R 10:10, C. M. Arroyo.

A study of the origins of scientific language: body and soul, matter and form, act and potentiality, being. A study of the ideological background of Western literatures: the conception of human personality and the presentation of character, the conception of reality, and the sense of literary structures. A study of the fusion of Greek thought and the Bible, and its reflection on the development of the ideas of freedom and equality in Western thought.

360 Biology and Theology: Approaches to the Origin of Life, Evolution, Heritage and Freedom, Sexuality and Death (also Romance Studies 460) Spring. 4 credits.

T R 2:30–3:45, C. M. Arroyo.

A historical exploration of the conflicts between biology and the understanding of theological concepts about freedom and universal values. Readings include scientific material, biblical exegesis, and philosophical and theological texts by Bergson, Heidegger, and Rahner.

363–364 The European Novel Fall and spring. 4 credits. Comparative Literature 363 is not a prerequisite to 364.

Fall: T R 2:30–3:45, W. W. Holdheim. Spring: T R 2:30–3:45, K. Gottschalk.

Close reading of approximately eight works each term. 363: From Cervantes to Dostoevsky. 364: From Flaubert to Nabokov. Authors to be read will include Sterne, Voltaire, Balzac, Tolstoy, Mann, and Proust. The works discussed will illustrate novelistic subgenres such as the picaresque novel, the novel of manners, the philosophical tale, the historical novel, the detective story, and the Bildungsroman.

379 The Russian Connection (also Russian 379) Spring. 4 credits.

M W F 10:10, P. Carden.

Russian literature in its European context. We will discuss great works of the Russian prose tradition in their reciprocal relations with European prose. Among the Russian works to be studied will be Pushkin's *Eugene Onegin*, Gogol's short stories, Tolstoy's *War and Peace*, Dostoevsky's *The Idiot*, and Chekhov's short stories. Among European authors whose work helped to shape or was in some degree shaped by Russian literature, we will look at Byron, Musset, Hoffmann, Stendhal, Sand, Maupassant, and Gide. In English translation.

380 Literature and Society Fall. 4 credits.

T R 12:20–1:35, W. Cohen.

Practical application of Marxian models to the relationship between major literary forms and the successive stages of Western civilization of which they are characteristic. Readings include Virgil, early Germanic heroic poetry (including *Beowulf*), Chrétien de Troyes, Shakespeare, Swift, Balzac, T. S. Eliot, Woolf, and Garcia Marquez.

381 History and Theory of Drama Spring. 4 credits.

T R 12:20–1:35, W. Cohen.

A historical survey of European drama, based on the relationship between communalism and individualism in ages of social transition, crisis, and revolution. Emphasis on ancient Athens, the Renaissance, and the modern period. Playwrights include the Greek tragedians, Aristophanes, Shakespeare, Corneille, Racine, Büchner, Ibsen, Lorca, Brecht, and contemporary American authors.

395 Introduction to Twentieth-Century Criticism Fall. 4 credits.

M W F 2:30–3:20, T. Bahti.

Major modern critics and critical movements representing historical, philosophic, ideological, and various formal approaches to literature will be considered both historically and critically. Texts will be drawn from Lukács, the Russian formalists, Benjamin, Heidegger, Auerbach, Frye, structuralism and post-structuralism, and others. Readings available in English.

416 Hume and Rousseau Spring. 4 credits.

Prerequisite: reading knowledge of French.

T R 10:10–11:25, N. Hertz.

Readings in the major works: Hume's *Treatise on Human Nature*, selections from his essays on economics, politics, and literature, his *Dialogues Concerning Natural Religion*; Rousseau's *Confessions*, his novel *La Nouvelle Héloïse*, and selections from his writings on education, government, and the arts.

419–420 Independent Study Fall and spring.

Variable credit. Comparative Literature 419 is not a prerequisite to 420.

Hours to be arranged. Staff.

421 Old Testament Seminar Fall. 4 credits.

Limited to 20 students.

W 2:30–4:30, C. M. Carmichael.

Identification and discussion of problems in the Old Testament.

426 New Testament Seminar Spring. 4 credits.

Limited to 20 students.

W 2:30–4:30, C. M. Carmichael.

Identification and discussion of problems in the New Testament.

429 Readings in the New Testament Fall.

4 credits. No prerequisites.

T R 12:20 and W 2:30, J. P. Bishop, J. O'Donnell. Close readings of representative texts from the New Testament in modern scholarly editions, with the help of appropriate commentary, introductory and specialized. The focus in 1980 will be on Mark and John. All readings will be in English, but repeated reference to the Greek original will be made. Graduate students and undergraduates from other colleges who are interested in the material should not feel inhibited from enrolling. The approach will be primarily exegetical: that is, we will try to find out what the texts say and what they mean by what they say. Thus we can hope to stay open to scholarly and religious issues alike. In 1980 Comparative Literature 429 will overlap with Classics 308. This means that the regular twice-a-week meetings of 429 will be taught together by Jonathan Bishop of the English department and James O'Donnell of the Classics department. Those students who enroll in 429 may complete all the work of that course in this way.

Students who enroll in Classics 308 will take a third hour a week on Wednesday at 2:30 in which the same readings will be repeated in Greek, with special attention to textual and philological problems. Students who have enrolled in 429 and find as the term proceeds that they would like to sit in on the Greek sessions will be welcome to do so.

446 Allegory and Symbolism Spring. 4 credits.

T R 12:20–1:35. C. Kaske.
Plato's *Republic* (brief selections); Dante, *Divine Comedy: Inferno*, selections from *Purgatorio* and *Paradiso*; the *Romance of the Rose* (substantial selections); mystical lyrics of St. John of the Cross; *Faust, Part II*; Kafka. Some consideration of terminology, and of author's stated intentions.

452 Renaissance Public Theater Fall. 4 credits.

F 1:25–3:25. W. Cohen.
Relations among history, ideology, theater, and dramatic form, approached primarily from a Marxian perspective. Focus on England and Spain, but attention to France, Italy, Germany, Holland, etc. according to student interest. Readings, available in English, include Marlowe, Shakespeare, Jonson, Lope, Tirso, Calderón, Hardy, Molière, Ruzante, Aretino, *commedia dell'arte*, Vondel, and Sachs.

474 Hegel's Phenomenology In Context Spring. 4 credits.

W 2:30–4:30. T. Bahti.
Primarily a close reading of Hegel's *Phenomenology of Mind* with the aid of the commentaries by Hyppolite and Kojève, the seminar will also consider the work in its traditional and contemporary contexts: conversion narrative (Augustine's *Confessions*) and romantic and idealist argument (Kant, Fichte, Schiller, Hölderlin, Schlegel, and others). As a secondary matter, various interpretations of Hegel will be introduced.

479 Fiction and the Irrational Spring. 4 credits.

Intended mainly for upperclass and first-year graduate students.
W 1:25–3:15. E. Rosenberg.
A study of some seven or eight novels and novellas to be chosen from among Dostoevsky's *The Devils*, Tolstoy's *Kreutzer Sonata*, Flaubert's *Madame Bovary*, Walpole's *Castle of Otranto*, De Quincey's *Confessions of An English Opium Eater*, Mann's *Dr. Faustus*, and selected shorter works by E. T. A. Hoffmann, Gogol, Kafka, and Mann.

490 Verga, D'Annunzio, and Pirandello (also Italian 490) Fall. 4 credits.

W 3:30–5:30. A. Grossvogel.
Three Italian writers at the crossroads of naturalism, symbolism, and the avant-garde. The course will focus on their narratives and dramas and will illustrate their poetics. Reading knowledge of Italian desirable; lectures in English. An hour of discussion in Italian will be arranged for students who know the language.

496 The Aesthetics of Coincidence (also Romance Studies 496) Spring. 4 credits.

R 2–4. R. Klein.
Superstitious coincidence—the conjunction of events that have no causal relation but that seem unmistakably to signify one another—has been taken, at least since Baudelaire, as an exemplary poetic experience. It finds its theoretical grounds in the Romantic doctrine of correspondances between man and nature and in Jungian psychology and Surrealist aesthetics. Readings in this course will include works of Jung, Freud, Breton, Poe, and other more contemporary writers.

606 Critical Perspectives: Roland Barthes Fall. 4 credits.

T 2:30–4:30. J. Culler.
This seminar will use the writings of Roland Barthes as a way of discussing various ways of writing criticism and the relations among them. Structuralism, semiotics, psychoanalysis, culture criticism, and autobiography are the major projects that will be considered, but they will be discussed more as resources for critical writing than as theories.

619 Independent Study Fall. 4 credits.

Hours to be arranged. Staff.

635 Jean Paul and the Eighteenth-Century Humorous Novel (also German Literature 635)

Spring. 4 credits.
R 2:30. P. W. Nutting.
Jean Paul's theory of humor will be used as a starting point in the discussion of the English humorous novels as well as his own in order to determine what social and structural function humor played in eighteenth-century fiction. Other theories of the comic (Hegel, Vischer, Freud, Bergson) will also be discussed in order to determine their relevancy in light of contemporary developments in narrative theory.

699 Hermeneutics Fall. 4 credits. Prerequisite for undergraduates: permission of instructor.

W 1:25–3:25. W. W. Holdheim.
An intensive study of H. G. Gadamer's work *Truth and Method* (in translation) will lead to an examination of such problems as: the structure of humanistic and historical knowledge and its relation to theoretical knowledge, "objectivity" and "subjectivity" in interpretation; the role of language in human existence; the nature of the aesthetic phenomenon. Various modern intellectual trends will be located and evaluated in terms of an overall theory of understanding. The course is open to qualified undergraduates after consultation with the instructor.

Related Courses in Other Departments

Many of these courses are conducted in English, and readings are in translation.

Chinese Philosophical Literature (Asian Studies 371)

Twentieth-Century Chinese Literature (Asian Studies 373)

Japanese Poetry and Drama (Asian Studies 375)

Modern Japanese Fiction (Asian Studies 376)

Southeast Asian Literature in Translation (Asian Studies 379)

Computer Science

For complete course descriptions, see the computer science listings in the "College of Engineering" section.

100 Introduction to Computer Programming Fall or spring. 3 credits. S-U grades optional. Students who contemplate taking both Computer Science 101 and 100 must take 101 first.

2 lec, 1 rec (optional); 3 evening tests, final.

101 The Computer Age Spring. 3 credits. S-U grades optional. Credit will not be granted for both Computer Science 100 and 101 unless 101 is taken first.

2 lec, 1 rec.

102 Introduction to FORTRAN Programming Fall or spring, weeks 1–5 only. 1 credit. S-U grades optional. Credit will not be granted for both Computer Science 100 and 102 unless 102 is taken first.

103 Introduction to PASCAL Fall or spring, weeks 6–9 only. 1 credit. S-U grades optional. Prerequisite: Computer Science 100 or equivalent programming experience.

104 Introduction to APL Programming Fall or spring, weeks 2–5 only. 1 credit. Prerequisite: Computer Science 100 or equivalent programming experience. S-U grades optional.

107 Introduction to Interactive Computing with CMS Fall or spring, weeks 2–5 only. 1 credit.

Prerequisite: Computer Science 100 or equivalent programming experience. S-U grades only.

108 Introduction to Statistical Packages Fall or spring, weeks 10–13 only. 1 credit. S-U grades only.

109 Multistep Job Processing and JCL Fall or spring, weeks 6–9 only. 1 credit. Prerequisite: Computer Science 100 or equivalent programming experience. S-U grades only.

211 Computers and Programming Fall or spring. 3 credits. Prerequisite: Computer Science 100 or equivalent programming experience.

2 lec, 1 lab.

280 Discrete Structures Fall. 4 credits. 3 lec. Prerequisite: Computer Science 211 or permission of instructor.

305 Social Issues in Computing Fall. 3 credits.

Prerequisites: Computer Science 100 or 101 or permission of instructor. 2 lec-sems.

314 Introduction to Computer Systems and Organization Fall or spring. 4 credits. Prerequisite: Computer Science 211 or equivalent.

2 lec, 1 lab.

321 Numerical Methods Fall or spring. 4 credits. Prerequisites: Mathematics 221 or 293, and knowledge of FORTRAN equivalent to what is taught in Computer Science 100.

3 lec.

410 Data Structures Fall. 4 credits. Prerequisite or corequisite: Computer Science 314.

3 lec.

414 Systems Programming and Operating Systems Spring. 4 credits. Prerequisite: Computer Science 314 or permission of instructor.

3 lec.

417–418 Interactive Computer Graphics (also Architecture 334) 417, fall; 418, spring. 4 credits each term. Prerequisite: Computer Science 314.

2 lec, 1 lab.

432 Introduction to Simulation and Database Systems (also Engineering OR&IE 383) Spring. 4 credits. Prerequisite: Computer Science 211.

2 lec, 1 rec.

434 Introduction to Database Systems Spring, weeks 7–14 only. 2 credits. Prerequisite: Computer Science 211 or equivalent.

2 lec, 1 rec.

481–482 Introduction to Theory of Computing I and II 481, fall; 482, spring. 4 credits each term. Prerequisites: Computer Science 211 and 280, or equivalent course work in mathematics, or permission of instructor.

3 lec.

490 Independent Reading and Research Fall or spring. 1–4 credits.

600 Computer Science and Programming Fall. 1 credit. Prerequisite: graduate standing in computer science or permission of instructor.

611 Advanced Programming Languages Fall. 4 credits. Prerequisite: Computer Science 410 or equivalent.

3 lec.

612 Translator Writing Spring. 4 credits. Prerequisites: Computer Science 410 and 481 or permission of instructor.

3 lec.

613 Concurrent Programming and Operating Systems Principles Fall. 4 credits. Prerequisites: Computer Science 410 and 414 or permission of instructor. 3 lecs.

615 Machine Organization Spring. 4 credits. Prerequisite: Computer Science 314 or permission of instructor. 3 lecs. Not offered 1980-81.]

618 Picture Processing Spring. 4 credits. Prerequisite: Computer Science 611 or permission of instructor. 3 lecs. Not offered 1980-81.]

621-622 Numerical Analysis 621, fall; 622, spring. 4 credits each term. Prerequisites: a course in mathematics beyond freshman and sophomore calculus, such as Mathematics 411, 421, or 431; and a working knowledge of FORTRAN. 3 lecs.

623 Short Course on Linear and Nonlinear Least Squares Fall, weeks 1-6. 2 credits. Prerequisite: Computer Science 321 or equivalent or permission of instructor.

624 Short Course on Spline Approximation Fall, weeks 7-12. 2 credits. Prerequisite: Computer Science 321 or equivalent or permission of instructor.

632 Analysis of Database Systems Fall. 4 credits. Prerequisites: Computer Science 410 and either 432 or permission of instructor. 2 lecs.

635 Information Organization and Retrieval Spring. 4 credits. Prerequisite: Computer Science 410 or equivalent. 2 lecs.

681 Theory of Algorithms and Computing I Fall. 4 credits. Prerequisite: Computer Science 482 or permission of instructor. 3 lecs.

682 Theory of Algorithms and Computing II Spring. 4 credits. Prerequisite: Computer Science 481 or permission of instructor. 3 lecs.

709 Computer Science Graduate Seminar Fall or spring. 1 credit each semester. Intended for graduate students interested in computer science. 1 sem.

711 Theory of Programming Languages Spring. 4 credits. Prerequisites: Computer Science 611 and 481. Offered alternate years. 2 lecs.

[712 Theoretical Aspects of Compiler Construction Spring. 4 credits. Prerequisites: Computer Science 612 and 481. Offered alternate years. 2 lecs. Not offered 1980-81.]

713 Seminar in Operating Systems Fall or spring. 4 credits. Prerequisite: Computer Science 613 or permission of instructor. 1 sem.

719 Seminar in Programming Fall or spring. 4 credits. Prerequisite: Computer Science 611 or permission of instructor. 1 sem.

721 Advanced Numerical Analysis Fall. 4 credits. Prerequisite: Computer Science 621 or 622 or permission of instructor. Alternates with Computer Science 722.

722 Advanced Numerical Analysis Spring. 4 credits. Alternates with Computer Science 721. See Computer Science 721 description.

[723 Numerical Solution of Ordinary Differential Equations and Integral Equations Fall. 4 credits. Prerequisite: Computer Science 622 or permission of instructor. Not offered 1980-81.]

[725 Numerical Solution of Partial Differential Equations Spring. 4 credits. Prerequisite: Computer Science 622 or permission of instructor. Hours to be arranged. Not offered 1980-81.]

727 Matrix Computations Fall. 4 credits. Prerequisite: Computer Science 621 or permission of instructor.

729 Seminar in Numerical Analysis Fall or spring. 4 credits. Prerequisite: permission of instructor.

[733 Selected Topics in Information Processing (also Engineering OR&IE 789) Not offered 1980-81.]

734 Seminar in File Processing Fall. Credit and hours to be arranged. Prerequisite: Computer Science 733.

739 Seminar in Information Organization and Retrieval Fall or spring. 4 credits. Prerequisite: Computer Science 635.

[741 Advanced Theory of Computing Fall. 4 credits. Prerequisites: Computer Science 681 and 682, or permission of instructor. Offered alternate years (alternates with Computer Science 782). Not offered 1980-81.]

782 Advanced Theory of Computing Spring. 4 credits. Offered alternate years (alternates with Computer Science 781).

789 Seminar in Automata Theory Fall or Spring. 4 credits. Prerequisite: permission of instructor. 1 sem.

790 Special Investigations in Computer Science Fall or spring. Prerequisite: permission of a computer science adviser.

890 Special Investigations in Computer Science Fall or spring. Prerequisite: permission of a computer science adviser.

990 Special Investigations in Computer Science Fall or spring. Prerequisite: permission of a computer science adviser.

Dutch

See Modern Languages, Literatures, and Linguistics, p. 92.

Economics

101 Introductory Economics Fall or spring. 3 credits.

Lecs. and disc. Staff. Analysis of aggregate economic activity in relation to the level, stability, and growth of national income. Topics discussed may include the determination and effects of unemployment, inflation, balance of payments deficits, and economic development, and how these may be influenced by monetary, fiscal, and other policies.

102 Introductory Economics Fall or spring. 3 credits.

Lecs. and disc. Staff. Explanation and evaluation of how the price system operates in determining what goods are produced, how goods are produced, and who receives income, and how the price system is modified and influenced by private organizations and government policy.

General Courses

301 Economics of Market Failure Spring. 4 credits. Prerequisite: Economics 102. R. Welsh.

The course will review briefly the welfare properties of the perfectly competitive market model and will then consider a range of situations in which these properties are modified and where there may be a case for some form of government intervention. The cases to be considered will include (a) the presence of externalities, pollution, and the economics of the environment; (b) the provision of public goods, the free-rider problem; (c) uncertainty and imperfect information, an analysis in the context of labour and insurance markets, and the market for medical care; (d) the regulation of natural monopoly and public utility pricing; (e) the failure of the market to achieve desired redistributive objectives, direct and indirect taxation as instruments of redistribution.

302 The Impact and Control of Technological Change (also Government 302 and City and Regional Planning 440) Spring. 4 credits.

S. Del Sesto. Examines social, environmental, and economic implications of technological change in the United States in the context of possible policies and strategies of control. Several specific cases will be considered in detail, followed by a broader investigation of the problems of a modern technological society. Alternative political-economic solutions will be explored.

[304 Economics and the Law Spring. 4 credits. Prerequisite: Economics 311 or permission of instructor. Not offered 1980-81.]

306 Economics of Defense Spending Spring. 4 credits. Prerequisite: Economics 102. J. Reppy, with guest lectures by visitors to the Cornell Peace Studies Program.

The economic aspects of defense spending are analyzed. Emphasis is on the procurement of weapons systems. Topics covered include an overview of the defense budget, special characteristics of the defense market, the structure of the defense industry, and the economic behavior of defense firms.

308 Economic Analysis of Government (also Engineering CEE B302) Spring. 4 credits. Prerequisites: one year of college-level mathematics plus Engineering CEE B301 or Economics 311. Staff.

Government intervention in a market economy is analyzed. Public goods, public finance, cost-benefit analysis, environment regulation, and macroeconomic topics are covered.

[309 Capitalism and Socialism (also I&LR 347) Fall. 4 credits. Prerequisite: permission of instructor. Not offered 1980-81.]

311 Intermediate Microeconomic Theory Fall or spring. 4 credits. Prerequisites: Economics 101-102 or permission of instructor. Economics 311.5 has a more mathematical approach and is designed to accommodate students in engineering. Staff.

The pricing processes in a private enterprise economy are analyzed under varying competitive conditions and their role in the allocation of resources and the functional distribution of national income is considered.

312 Intermediate Macroeconomic Theory Fall or spring. 4 credits. Prerequisites: Economics 101-102 or permission of instructor. Staff.

The theory of national income determination and economic growth in alternative models of the national

economy is introduced. The interaction and relation of aspects of these models of empirical aggregate economic analysis is examined.

[315 History of Economic Thought Fall. 4 credits. Prerequisites: Economics 101–102 or permission of instructor. Not offered 1980–81.]

317 Intermediate Mathematical Economics I Fall. 4 credits.

M. Nermuth.
Introduction of calculus and matrix algebra; problems of maximization of a function of several variables. Economic examples are used to illustrate and teach the mathematical concepts.

318 Intermediate Mathematical Economics II Spring. 4 credits.

M. Nermuth.
Advanced techniques of optimization and application to economic theory.

319 Quantitative Methods Fall. 4 credits.
R. Joyeux.

320 Quantitative Methods Spring. 4 credits. Prerequisites: thorough understanding of microeconomic and macroeconomic theory and some elementary calculus.

R. Joyeux.
The use of quantitative analysis in economics is introduced. Topics include index numbers, input-output analysis, elementary decision theory, and an introduction to hypothesis testing and the formulation and estimation of econometric models.

Economic History

[321 Economic History of Ancient Medieval Europe 4 credits. Prerequisite: permission of instructor. Not offered 1980–81.]

[322 Economic History of Modern Europe: 1750 to the Present Fall. 4 credits. Open to upperclass students with some background in economics or history, or with permission of instructor. M. R. Haines. Not offered 1980–81.]

323 American Economic History Fall. 4 credits. Prerequisites: Economics 101–102, or permission of instructor.

P. D. McClelland.
Problems in American economic history from the first settlements to early industrialization are surveyed.

324 American Economic History Fall. 4 credits. Prerequisites: Economics 101–102, or permission of instructor.

P. D. McClelland.

325 Economic History of Latin America Fall. 4 credits. Open to upperclass students with some background in economics or history, or with permission of instructor.

T. Davis.

326 History of American Business Enterprise Spring. 4 credits. Prerequisites: Economics 101–102 or equivalents.

P. D. McClelland.
History of the changing structure of American business, from 1800 to the present, with major emphasis upon developments after the Civil War. The focus of the course will be the changing structure of challenges (for example, the rise of unions, development of a national capital market, changing role of government) and the various responses of business organizations and entrepreneurs to those challenges.

330 The Soviet Union: Politics, Economics, and Culture (also Government 330 and Russian 330) Fall. 4 credits. Economics majors cannot use this course to fulfill major requirements.

G. Staller, M. Rush, and G. Gibian.
Interdisciplinary survey of the USSR since the Revolution, with emphasis on contemporary developments.

Money, Banking, and Public Finance

331 Money and Credit Spring. 4 credits. Prerequisites: Economics 101–102.

U. M. Possen.
A systematic treatment of the determinants of the money supply and the volume of credit. Economic analysis of credit markets and financial institutions in the United States.

333 Theory and Practice of Asset Markets Fall. 4 credits. Prerequisites: Economics 311–312.

T. Davis.
The theory and decision making in the presence of uncertainty and the practical aspects of particular asset markets are examined.

335 Public Finance: Resource Allocation Fall. 4 credits. Prerequisites: Economics 101–102.

E. Grinols.
The role of government in allocating resources through taxes and expenditures is analyzed; emphasis is on the federal government. Criteria for evaluation are developed and applied to specific policies.

[336 Collective Choice: Theory and Applications Fall. 4 credits. Prerequisite: Economics 311, or permission of instructor. Not offered 1980–81.]

[338 Macroeconomic Policy Fall. 4 credits. Prerequisite: Economics 312. Not offered 1980–81.

U. M. Possen.
The use of fiscal and monetary policies for achieving full employment, price-level stability, and appropriate economic growth are studied.]

Labor Economics

[341 Labor Economics Fall. 4 credits. Prerequisites: Economics 101–102. W. Galenson. Not offered 1980–81.]

[342 Problems in Labor Economics (also I&LR 343) Fall. 4 credits. Prerequisites: Economics 311 or I&LR 240. Not offered 1980–81.

R. Ehrenberg.
The theory and empirical analysis of labor markets and their applications to policy issues are considered in depth. Specific topics vary each semester. The course is designed to increase each student's competence in applying microeconomic theory and econometrics to policy issues through an econometric research project.]

Organization, Performance, and Control of Industry

351 Industrial Organization Fall. 4 credits. Prerequisites: Economics 101–102. Recommended: Economics 312.

W. Greene.
An examination of the basic factors that lead to less competitive markets in the United States economy, and of the factors that may counteract these factors. Both theoretical and empirical generalizations are emphasized, rather than studies of specific industries. The first third of the course is abstract theoretical modeling of competition, oligopoly, and monopoly markets, followed by an examination of the relationship between market structure (e.g., number of firms and markets shares) and its conduct and performance.

352 Public Regulation of Business Spring. 4 credits. Prerequisite: Economics 351 or permission of the instructor.

R. Masson.

Questions of public policy concerning patents and antitrust are surveyed. Incentives of firms under current law are considered. These questions, along with theories of social costs, are used to examine how patent laws, antitrust laws, or endorsement policies could best be designed. Some past cases that have shaped the current interpretation of the laws are considered.

[354 Economics of Regulation Spring. 4 credits. Not offered 1980–81.]

355 Economics of the American System of Private Enterprise Fall. 4 credits. Prerequisites: Economics 101–102 and Economics 311–312, or equivalents.

A critical examination of the private sector of the United States economy: its history, some leading current issues involving it, and its relation to theoretical and philosophical interpretations of the market economy.

356 Economics of the American System of Private Enterprise Spring. 4 credits. Prerequisites: Economics 101–102 and Economics 311–312, or equivalents.

R. Frank.
For course description, see Economics 355 above.

International and Comparative Economics

361 International Trade Theory and Policy Fall. 4 credits. Prerequisites: Economics 101–102 or permission of instructor.

L. Ebrill.
The principles that have guided the formulation of international trade and commercial policies are surveyed. The evolution of the theory of international trade, principles and practices of commercial policy, problems of regional integration and customs unions, and institutions and practices of state trading are considered.

362 International Monetary Theory and Policy Spring. 4 credits. Prerequisites: Economics 101–102 or permission of instructor.

R. Owen.
The principles that guided the formulation of international financial policies are surveyed. The evolution of the theory of balance of payments adjustment, international monetary standards, international capital movements, economic aid, international monetary institutions, and proposals for international monetary reforms are considered.

[364 The United States In the World Economy Spring. 4 credits. Prerequisites: Economics 101–102 or permission of instructor. Not offered 1980–81.]

[365 Economic Policy and Development in Southeast Asia Spring. 4 credits. Prerequisite: permission of instructor. Not offered 1980–81.]

[366 Introduction to the Japanese Economy Spring. 4 credits. Not offered 1980–81.]

367 Comparative Economic Systems: Soviet Union and Europe Fall. 4 credits. Prerequisite: Economics 311–312 or permission of instructor.

G. J. Staller.
Discussion of approaches to comparison of economic systems. Consideration of abstract models (market economy, central planning, decentralized socialist market) as well as national economies (France and Sweden, Yugoslavia and Soviet Union). Possibility of convergence of economic systems is explored.

368 Comparative Economics: United States, Europe, and the Soviet Union Spring. 4 credits. Prerequisites: Economics 101–102. Intended for students who are not majoring in economics.

G. Staller.

European and Soviet economies after the Second World War are surveyed. The European countries studied include France, Sweden, and Italy in the West, and Yugoslavia plus another country in the East. A descriptive and institutional approach is used and designed for nonmajors.

371 Public Policy and Economic Development Fall. 4 credits.
F. Golay.

Study of the problem of sustaining accelerated economic growth in less-developed countries. Trade-offs between growth, welfare and equity, the legacy of colonialism, relevance of history and economic theory, problems of capital formation, economic planning and international specialization, and the interaction of industrialization, agricultural development, and population change are emphasized.

[372 Applied Economic Development Spring 4 credits. F. Golay. Not offered 1980-81.]

373 International Specialization and Economic Development Spring. 4 credits. Prerequisites: Economics 101-102 or permission of the instructor.
F. Golay.

The assessment of the gains and risks and the appropriate role for specialization and trade in economic development, management of the external disequilibrium attending serious efforts to accelerate economic development, and the processes, institution, and opportunities for innovation in transferring income from the relatively developed countries to those less developed.

[374 National and International Food Economics (also Nutritional Sciences 457) Spring. 3 credits. Prerequisites: a college course in economics and junior standing or permission of instructor. Not offered 1980-81.

E. Thorbecke.
Examination of individual components essential for an understanding of the United States and world food economies. Analysis of the world food economy. Review and analysis of: (a) the major economic factors determining the demand for food, the composition of food consumption and nutritional intake; and (b) the major economic factors affecting food production and supply. Examination and evaluation of the effectiveness of various food policies and programs in altering food consumption patterns. Principles of nutritional planning in developing countries within the context of the process of economic and social development.]

378 Economics, Population, and Development Fall. 4 credits.
R. Avery.

The economic aspects of population and the interaction between population change and economic change are introduced. Particular attention is paid to economic views of fertility, mortality, and migration, and to the impact of population growth on economic growth, development, modernization, resources, and the environment.

[381 Economics of Workers' Management in Yugoslavia Spring. 4 credits. Prerequisites: Economics 311-312 or permission of instructor. Not offered 1980-81.

J. Svejnar.
The doctrine and practice of self-management and workers' cooperation is surveyed, and the organizational structure and institutional form of the participatory economy is studied. Special attention is given to the outcome of the decision-making process at the level of the enterprise, the consistency of these outcomes with national plans, and the policies used to implement them. Examples are drawn from the Yugoslav experience and, depending on student interest, the discussion may cover other foreign experiences such as those of Algeria, the Basque region, Chile, Israel, Peru. Emphasis is on new developments and new possibilities of implementing

democratic, worker-owned and worker-managed enterprises in the United States. Appropriate institutions and legal forms of self-management in the United States are examined using theoretical analyses developed in the course.]

382 The Practice and Implementation of Self-Management Fall. 4 credits. Prerequisite: Economics 311-312 or permission of the instructor.
J. Vaneck.

The various forms of labor participation in the world today are described, and how producer cooperatives and labor-managed firms and systems can be created is explained. Extensive use is made of the theory of labor-managed systems. The history of various doctrines and self-managed experiences is considered.

Related Course in Another Department

Comparative Economic Systems: Soviet Russia (I&LR 34)

Honors Program

391 Honors Seminar Fall. 4 credits. Required of all seniors honors candidates.
S. Marston.
Selected readings in the economics of public issues.

392 Honors Seminar Spring. 4 credits. Required of all senior honors candidates.
S. Marston.
A continuation of Economics 391.

399 Readings in Economics Fall or spring. Variable credit.
Department Faculty.

Graduate Courses and Seminars

503 Nonparametric Methods for Peace Scientists and Regional Scientists Fall. 4 credits.
W. Isard.

Topics to be covered include: advantages and disadvantages of parametric and nonparametric methods; problems involved in measurement; nonparametric methods based on one sample and many samples; nonparametric methods requiring only nominal measurement, and those requiring only ordinal measurement; nonparametric measures of association; procedures for non-normal distributions.

[504 Economics and the Law Fall 4 credits. Not offered 1980-81.
Staff.
See Economics 304 for course description.]

505 Interdependent Decision Making Fall. 4 credits.
W. Isard.

The basic elements in interdependent decision-making situations are examined. Situations where decision makers have different sets of objectives which they wish to achieve and employ different criteria for evaluating performance are focused on. The use of maximizing incremental procedures, game theory, and diverse methods for establishing priorities and cooperative action as well as recursive, interactive approaches to resolve conflict are considered. Coalition theory and related topics are covered.

509 Microeconomic Theory I Fall. 4 credits.
D. Easley.
Topics in consumer and producer theory.

510 Microeconomic Theory II Spring. 4 credits.
M. Majumdar.
Topics in consumer and producer theory, equilibrium models and their application, externalities and public goods, intertemporal choice, simple dynamic models and resource depletion, choice under uncertainty.

513 Macroeconomic Theory: Static Income Determination Fall. 4 credits.
M. Gertler.

514 Macroeconomic Theory: Dynamic Models, Growth, and Inflation Spring. 4 credits.
U. Possen.

517 Intermediate Mathematical Economics I Fall. 4 credits.
D. Easley.

518 Intermediate Mathematical Economics II Spring. 4 credits.
M. Nermuth.
See Economics 318 for course description.

519 Quantitative Methods Spring. 4 credits.
R. Joyeux.

520 Quantitative Methods Fall. 4 credits.
Prerequisites: good control of microeconomic and macroeconomic theory and some knowledge of calculus, linear algebra, and probability; or permission of instructor.
W. Greene.

The application of quantitative analysis to testing of economic theories provides a framework for study and evaluation of cross-section and time-series data, methodology and theory of economic measurement, statistical techniques, empirical studies, and economic forecasting.

[521 Economic History of Ancient Medieval Europe Fall. 4 credits. Not offered 1980-81.]

[522 Economic History of Modern Europe: 1750 to the Present Fall. 4 credits. M. R. Haines. Not offered 1980-81.]

523 American Economic History Fall. 4 credits.
P. D. McClelland.
See Economics 323 for course description.

524 American Economic History Spring. 4 credits.
P. D. McClelland.
See Economics 324 for course description.

525 Economic History of Latin America Fall. 4 credits.
T. E. Davis.
See Economics 325 for course description.

[536 Collective Choice: Theory and Applications Spring. 4 credits. Not offered 1980-81.]

551 Industrial Organization Fall. 4 credits.
W. Greene.
See Economics 351 for course description.

552 Public Regulation of Business Spring. 4 credits.
R. Masson.
See Economics 352 for course description.

555 Economics of the American System of Private Enterprise Fall. 4 credits. Prerequisites: Economics 101-102 and Economics 311-312 or equivalents.
R. Frank.
See Economics 355 for course description.

556 Economics of the American System of Private Enterprise Spring. 4 credits. Prerequisites: Economics 101-102 and Economics 311-312 or equivalents.
R. Frank.
See Economics 356 for course description.

561 International Trade Theory and Policy Fall. 4 credits. Prerequisites: Economics 101-102 or permission of instructor.
L. Ebrill.
See Economics 361 for course description.

562 International Monetary Theory and Policy

Spring. 4 credits. Prerequisites: Economics 101-102 or permission of instructor.

R. Owen.
See Economics 362 for course description.

565 Economic Problems of Latin America

Spring. 4 credits.

T. E. Davis.

[566 Introduction to the Japanese Economy

Spring. 4 credits. Not offered 1980-81.]

567 Comparative Economic Systems: Soviet Union and Europe

Fall. 4 credits.

G. J. Staller.
See Economics 367 for course description.

568 Comparative Economics: United States, Europe, and Soviet Union

Spring. 4 credits.

Prerequisites: Economics 101-102.

G. Staller.
See Economics 368 for course description.

571 Public Policy and Economic Development

Fall. 4 credits.

F. Golay.
See Economics 371 for course description.

[572 Applied Economic Development

Spring. 4 credits. F. Golay. Not offered 1980-81.]

573 International Specialization and Economic Development

Spring. 4 credits. Prerequisites:

Economics 101-102 or permission of the instructor.

F. Golay.
See Economics 373 for course description.

578 Economics, Population, and Development

Fall. 4 credits.

R. Avery.
See Economics 378 for course description.

[581 Economics of Workers' Management in Yugoslavia

Fall. 4 credits. Prerequisites: Economics 311-312, or permission of instructor. Not offered 1980-81.

J. Svejnar.
See Economics 381 for course description.]

582 The Practice and Implementation of Self-Management

Fall. 4 credits.

J. Vanek.
See Economics 382 for description.

599 Readings in Economics

Fall or spring.

Variable credit.
Department faculty.

603 Seminar in Peace Science

Fall. 4 credits.

W. Isard.
Among topics to be covered at an advanced level are: game theory, coalition theory, bargaining and negotiation processes, cooperative procedures, microbehavior models, macrosocial processes, and general systems analysis.

605 Advanced Social Theory for Peace Scientists

Spring. 4 credits. Prerequisites:

Economics 505, and knowledge of microeconomic theory.

W. Isard.
Study of diverse social science hypotheses and theories as they relate to, and can be synthesized within, multiregional, multinational, and generally multigroup conflict and cooperative frameworks. Particular attention will be given to developments stemming from microeconomics and general systems theory. Dynamical analyses will be emphasized.

[611 Advanced Microeconomic Theory

Spring. 4 credits. H. Wan. Not offered 1980-81.]

[612 Advanced Macroeconomic Theory

Fall. 4 credits. S. Marston. Not offered 1980-81.]

617 Mathematical Economics

Fall. 4 credits.

M. Nermuth.

618 Mathematical Economics

Spring. 4 credits.

D. Easley.

619 Econometrics

Fall. 4 credits. Prerequisites:

calculus and linear algebra. Recommended:

Economics 520 or equivalent.

R. Joyeux
Detailed examination of regression models at the level of H. Theil, *Principles of Econometrics*. Emphasis is on theoretical aspects rather than practical applications. Topics include distribution theory and the use of sufficient statistics, the classical regression model, generalized least squares, modified generalized least squares, and the multivariate regression model.

620 Econometrics

Spring. 4 credits. Prerequisites:

calculus and linear algebra plus Economics 619 or

permission of instructor. Recommended: Economics

520 or equivalent.

N. Kiefer.
Advanced topics in econometrics, such as asymptotic distribution theory, errors in variable and latent variable models (e.g. factor analysis), simultaneous equation models with particular attention to problems of identification, time series analysis, qualitative response models, and aggregation.

[623 American Economic History

Fall. 4 credits.

Not offered 1980-81.]

[624 American Economic History

Spring. 4 credits. Not offered 1980-81.]

[626 Methods in Economic History

Spring. 4 credits. Not offered 1980-81.]

631 Monetary Theory and Policy

Fall. 4 credits.

H. Wan and M. Gertler.

632 Monetary Theory and Policy

Spring. 4 credits.

H. Wan and M. Gertler.

635 Public Finance: Resource Allocation and Fiscal Policy

Fall. 4 credits.

L. Ebrill.

636 Public Finance: Resource Allocation and Fiscal Policy

Spring. 4 credits.

L. Ebrill.

[638 Public Finance: Local Government and Urban Structure

Fall. 4 credits. R. E. Schuler. Not

offered 1980-81.]

641 Seminar in Labor Economics

Fall. 4 credits.

R. Ehrenberg.

642 Seminar in Labor Economics

Spring. 4 credits.

R. Butler.

[644 The Labor Market and Public Policy: A Comparative View

Spring. 4 credits. Not offered

1980-81.]

647 Economics of Evaluation (also I&LR 647)

Spring. 4 credits.

R. Ehrenberg.

See I&LR 647 for course description.

[648 Issues in Latin America

Spring. 4 credits.

Not offered 1980-81.]

651 Industrial Organization and Regulation

Fall. 4 credits.

G. Hay

652 Industrial Organization and Regulation

Spring. 4 credits.

R. Masson.

661 International Economics: Pure Theory and Policy

Fall. 4 credits.

E. Grinols.

[662 The International Economic Order

Fall. 4 credits. Prerequisites: Economics 361-362 and

acquaintance with conventional trade analysis. Not

offered 1980-81.

J. Vanek.

Conventional international economics is becoming increasingly irrelevant in explaining major international trade and finance phenomena of the world. Discussions attempt to (1) present a systematic critique of neoclassical trade and exchange theory; (2) purify analytical tools using empirical observations; (3) incorporate analysis from the Marxian and unequal tradition, and (4) produce an overall synthesis, especially with respect to international economic relations between poor and rich countries.]

664 International Economics: Balance of Payments and International Finance

Spring. 4 credits.

R. Owen.

[670 Economic Demography and Development

Fall. 4 credits. Not offered 1980-81.]

[671 Economics of Development

Spring. 4 credits. E. Thorbecke. Not offered 1980-81.]

[672 Economics of Development

Fall. 4 credits.

G. Fields. Not offered 1980-81.]

673 Development in a Polarized World

Fall. 4 credits. Prerequisites: Economics 311-312.

F. Golay.

The impact of the international economic order on the development efforts of less-developed countries. Emphasis is on such topics as the gains from trade, commercial policy and industrialization, risks of specialization, synthesis of development theory and trade theory, the North-South confrontation, proposals for reform of the international economic order, commodity agreements and development, international income transfers, and direct foreign investment.

[674 Economic Systems

Spring. 4 credits.

G. J. Staller. Not offered 1980-81.]

[678 Economic Growth in Southeast Asia

Spring. 4 credits. Not offered 1980-81.]

[679 Theory of Quantitative Economic Policy

Spring. 4 credits. M. Gertler. Not offered 1980-81.]

681 Economics of Participation and Labor-Management Systems: Theory

Fall. 4 credits.

J. Vanek.

The theory of labor-management economies is developed systematically and literature on that and related subjects is surveyed. Theories of the participatory firm, industry and general equilibrium are covered together with a microeconomic theory and analysis of special dimensions of the system. Efficient decision-making processes within the firm are also studied. Illustrative references to Yugoslavia and other real instances of labor participation are made throughout.

[682 The Practice and Implementation of Self-Management

Spring. 4 credits.

J. Svejnar. Not offered 1980-81.]

684 Seminars in Advanced Economics

Fall and spring. Variable credit.

Staff.

English

Students should consult the *Announcement of Academic Information* and the department's guide, "Suggestions for Prospective Majors in English."

Courses for Sophomores

Although courses numbered in the 200's are primarily for sophomores, some of them are open to qualified freshmen and to upperclass students. Courses approved for the major are English 201, 202, and all courses numbered 300 or above except English 496. In addition to English 201–202, students may count up to two 200-level courses toward the major from "Courses Approved for the Major," listed below.

201–202 The English Literary Tradition 201, fall; 202, spring, 4 credits each term. Open to all undergraduates. English 201 is not a prerequisite to 202. May be counted toward the English major.

Fall: M W F 11:15; M. Radzinowicz, S. Elledge.
Spring: M W F 11:15; M. H. Abrams, R. Parker.
Interpretation of major works ranging from *Beowulf* through those of Yeats. English 201 surveys Old English poetry, Chaucer, medieval romances, Spenser, Shakespeare, Donne, and Milton. 202 includes Dryden, Swift, Pope, Samuel Johnson, Blake, Jane Austen, the major Romantic and Victorian poets, Shaw, and Yeats. The course will be conducted by a combination of lectures and intensive seminars in special topics.

Courses Primarily for Nonmajors

205–206 Readings in English and American Literature 205, fall; 206, spring, 3 credits each term. Open to all undergraduates. English 205 is not a prerequisite to 206.

Fall: M W F 10:10; R. T. Farrell. Spring: M W F 10:10; S. M. Parrish.
English 205: The purpose of this course is to provide students with a substantial introduction to three areas: the Renaissance (and Metaphysical) tradition, the eighteenth century, and the early American novel. The course outline was decided after long consultation with the fifty students who took the course in 1979. If students wish to read ahead, they might well take up the American works first. These will be selections from the *Viking Portable Melville*, James Fenimore Cooper's *The Pioneers*, and Henry James's *The Europeans*. The course will deal with literature in its cultural context; for example, the Renaissance and Metaphysical segment will include performance of the music, poetry, and drama of the period. There will be a take-home mid-term examination, five short papers, and a final paper. Students will have the option of substituting dramatic readings of poems or plays for two of the five short papers.

English 206 covers literature since the mid-nineteenth century, including such authors as Browning, Shaw, D. H. Lawrence, Hardy, Yeats, Hemingway, Faulkner, and Robert Frost. Two lectures and a small discussion section each week. Two short papers and a final.

210 Medieval Romance: The Voyage to the Otherworld Spring, 3 credits.

T R 10:10. T. D. Hill.
The course will survey some representative medieval narratives concerned with voyages to the otherworld or with the impinging of the otherworld upon ordinary experience. The syllabus will normally include some representative Old Irish otherworld literature, selections from the *Mabinogion*, selections from the *Lais* of Marie de France, Chrétien de Troyes' *Erec*, *Yvain*, and *Lancelot*, the Middle English *Sir Orfeo*, *Sir Gawain and the Green Knight* and the *Tam Lin* ballads. We will finish by looking at a few modern "otherworld" romances, such as ones by Lewis Carroll, J. R. R. Tolkien, and Madeleine L'Engle. All

readings will be in modern English. Requirements: three brief (two to three typed pages) papers and a final exam designed to test the students' reading.

227 Shakespeare Fall or spring, 3 credits. Each section limited to 25 students.

M W F 10:10 or 1:25 or T R 12:20–1:35 or 2:30–3:45. C. Levy and others.
A critical study of representative plays from the principal periods of Shakespeare's career.

248 Feminist Issues in Nineteenth- and Twentieth-Century Literature (also Women's Studies 249) Spring, 4 credits.

M W F 1:25. M. Jacobus.
An introductory course in writing by and about women, exploring the relation between women, literature, and feminism. There will be five main areas of concern: work and home; education and marriage; sexuality; motherhood; and the woman artist or writer herself. Readings will include novels by Charlotte Brontë, Charles Dickens, Elizabeth Gaskell, George Eliot, Thomas Hardy, Virginia Woolf, D. H. Lawrence, Sylvia Plath, Margaret Atwood, and Adrienne Rich, as well as a variety of texts drawn from writers on women and feminism from Mary Wollstonecraft to the present day.

285 Writing About the Arts at Cornell Spring, 3 credits.

T R 11:15. T. Murray.
The course will train students to describe works of art including painting, sculpture, architecture, literature, and dramatic productions. It will focus on developing students' sensitivity to critical choices and positions. As a means of promoting appreciation of the creative arts on campus, the course will study artifacts being displayed, performed, and read on campus. Ideally, the course will encourage and contribute to public review of campus artistic events.

288–289 Expository Writing 288, fall; 289, spring, 3 credits each term. Each section limited to 18 students.

M W 9:05 or 10:10 or T R 2:30; plus conferences to be arranged. T. Jeffers, R. Farrell and others.
This course is intended to meet the needs of undergraduates from a range of disciplines who wish to gain skill in expository writing. Under the instructor's direction, students will write on topics related to their own interests. A substantial amount of new writing or a revision of an earlier essay will be expected each week. Since the class is the primary audience for the essay, attendance and participation in discussion by all students are essential. In addition to regularly scheduled class meetings, instructors will hold frequent conferences with students.

200-Level Courses Approved for the Major

Students may take up to two of the following courses for credit toward the English major.

207 Twentieth-Century Biography Spring, 4 credits.

M W F 12:20. D. Novarr.
An introduction to some forms of modern biography, traditional and experimental, to see how writers have represented and illuminated character and achievement. Subjects range from Leonardo da Vinci and Martin Luther to George Washington, F. Scott Fitzgerald, and Marilyn Monroe; writers from Freud and Erikson to Lytton Strachey, Virginia Woolf, and Norman Mailer. Consideration of the values of biography, biographical "truth," the relation of biography to history, psychology, ethics, and the novel.

247 Major Nineteenth-Century Female Novelists (also Women's Studies 248) Fall, 4 credits.

M W F 1:25. J. F. Blackall.
Readings include Austen, *Persuasion*; E. Brontë, *Wuthering Heights*; C. Brontë, *Jane Eyre* and *Villette*; Gaskell, *Mary Barton* or *North and South*; Stowe, *Uncle Tom's Cabin*; Eliot, *The Mill on the Floss*;

Chopin, *The Awakening*; and two imaginative sequels to *Jane Eyre* — James's "The Turn of the Screw" and Jean Rhys's *Wide Sargasso Sea*. In addition to examining the novels as works of fiction, the course will consider the biographical and social circumstances surrounding these works, their critical reception within their own time, and the themes and subject matter that these novelists elected to write about.

253 The Modern Novel Fall, 4 credits.
T R 8:40–9:55. B. Rosecrance.

A survey of English, European, and American novels and shorter fiction, with some attention to their contemporary historical and intellectual contexts. Works by such writers as Conrad, Joyce, Lawrence, Forster, Woolf, Mann, Kafka, Nabokov, Faulkner, and one or two contemporary Americans will be considered.

254 Modern Poetry Spring, 4 credits.
M W F 11:15. R. Kirschten.

We will trace major emotional and technical achievements in British and American lyric poetry in the modern period. Emphasis is on the lyric voice and its bases of appeal in eliciting reader response. Poets featured include Hopkins, Yeats, Eliot, Frost, Stevens, Cummings, Dylan Thomas, and Marianne Moore.

267 Twentieth-Century Southern Fiction Spring, 4 credits.

M W F 12:20. L. Herrin.
The course will deal exclusively with the fiction of the twentieth-century American South — arguably, in time and place, the richest concentration of writers we have — and will proceed more or less chronologically. After a brief background survey, the course will begin with William Faulkner, then move to Thomas Wolfe, James Agee, and Robert Penn Warren. The stories and short novels of Katherine Anne Porter, Flannery O'Connor, Carson McCullers, and Eudora Welty will make up one part of the course, as will the short work of three black writers, Richard Wright, Ernest Gaines, and Gayl Jones. The semester will end with novels by two contemporaries, William Styron and Walker Percy, and, if time permits, by one or two others. Short interpretative papers and class discussion.

277 Folklore and Literature Fall, 4 credits. Limited to 15 students.

T R 2:30. A. Lurie.
Readings in traditional British, Irish, and American folklore — tales, ballads, rhymes, fables, legends, ghost stories, etc. — and study of literary works which make extensive use of folklore materials, such as *Beowulf*; *Sir Gawain and the Green Knight*; excerpts from the Arthurian legends as retold by Malory, Tennyson, and T. H. White; poems in ballad form by Scott, Coleridge, Yeats, Auden, and others; *Macbeth*; *The Beggar's Opera*; ghost stories by Dickens, Poe, James, and others; Christina Rossetti's *Goblin Market*; Tolkien's *The Hobbit*; beast epics or fables such as Orwell's *Animal Farm* or Adams' *Watership Down*; and John Gardner's *Grendel*.

290 Literature and Value Spring, 4 credits.
T R 10:10–11:25. J. McConkey and others.

Each week a different member of the department discusses a poem, group of poems, story, play, or novel that is of particular importance to him or her, perhaps as a work that contributed to the person's decision to devote a lifetime to the study of literature or to the writing of fiction or verse, perhaps as a work that has affinity with their present-day attitudes and values. In following meetings that week, class members will discuss in detail the same or related works. Students will be encouraged to explore, in their papers for the course as well as their discussions, the relationship between specific texts and their own experiences, attitudes, and values.

Courses which Satisfy the Major Prerequisite

270 The Reading of Fiction Fall or spring. 3 credits. Recommended for prospective majors in English. Fall: open to freshmen who have received advanced placement in English. Spring: open to other qualified freshmen. Upperclass students admitted as space permits. Each section limited to 22 students. May be used to satisfy either the Freshman Seminar requirement or the distribution requirement in the humanities, but not both.

M W F 1:25 or 2:30 or 11:15 or T R 12:20–1:35 or 10:10–11:25. J. Blackall, C. Chase, D. Fried, and others.

Forms of modern fiction, with emphasis on the short story and novella. Critical study of works by English, American, and Continental writers from 1880 to the present — Chekhov, James, Conrad, Faulkner, Mann, Kafka, and others.

271 The Reading of Poetry Fall or spring.

3 credits. Recommended for prospective majors in English. Fall: open to freshmen who have received advanced placement in English. Spring: open to other qualified freshmen. Upperclass students admitted as space permits. Each section limited to 22 students. May be used to satisfy either the Freshman Seminar requirement or the distribution requirement in the humanities, but not both.

M W F 10:10 or 1:25 or T R 10:10–11:25.

B. Rosecrance and others.

Designed to sharpen the student's ability to understand and respond to poetry. Readings in the major periods, modes, and genres of poetry written in English.

272 Introduction to Drama Fall or spring.

3 credits. Recommended for prospective majors in English. Fall: open to freshmen who have received advanced placement in English. Spring: open to other qualified freshmen. Upperclass students admitted as space permits. Each section limited to 22 students. May be used to satisfy either the Freshman Seminar requirement or the distribution requirement in the humanities, but not both.

Fall: T R 10:10–11:25 or 2:30–3:45. Spring: M W F 11:15 or 12:20. B. Adams, T. Murray, and others.

Selected masterworks by such playwrights as Sophocles, Ibsen, and Shaw introduce the chief idioms and styles of Western dramatic tradition. The course work will consist of discussions and papers, as well as a special project related to the plays being produced by the Department of Theatre Arts. The course will be taught in small sections.

275 The American Literary Tradition Fall or spring.

3 credits. Recommended for prospective majors in American studies.

Fall: M W F 9:05; spring: hours to be arranged. D. Fried.

The problem of an American national literature is explored through the reading and discussion of eight texts representing the four principal periods in American literary history. Not a survey, this course focuses on the relations of the texts to each other, the role of Americanness in those relationships, and the assumptions about history with which critical appreciation must engage. Among the writers whose work is studied are Franklin, Hawthorne, Thoreau, Mark Twain, Henry James, Frost, and Faulkner.

280–281 Creative Writing 280, fall; 281, spring. 3 credits each term. Recommended for prospective majors in English. Prerequisite for English 281: recommendation from English 280 instructor. Each section limited to 18 students.

M W 9:05 or 12:20 or 2:30 or 3:35 or T R 9:05 or 12:20 or 2:30. P. Janowitz, R. Kirschten, and others.

An introductory course in the theory and practice of writing narrative prose, poetry, and allied forms.

Courses for Sophomores, Juniors and Seniors

Courses at the 300 level are open to juniors and seniors, and to others with the permission of the instructor. There are no specific prerequisites, except as noted for English 382–383 and 384–385.

Major Periods of English Literature

310 Old English Literature in Translation Spring. 4 credits.

T R 12:20. T. D. Hill.

Cultural backgrounds, reading, and critical analysis of Anglo-Saxon poetry in translation, pagan and Christian epic, elegy, heroic legend, and other forms. Attention will be given to the relations of this literature to that of later periods.

313 Middle English Literature in Translation Spring. 4 credits.

M W F 1:25. R. Kasse.

Readings from Middle English literature in translation, excluding Chaucer. Though selections vary, Arthurian romances such as Lagamon's *Brut*, the *Alliterative Morte Arthure*, *Sir Gawain and the Green Knight*, and Malory's *Morte d' Arthur*; Middle English lyrics and plays; and major poems such as *Piers Plowman*, *The Pearl*, and the other works of the *Gawain-poet*, Gower's *Confessio Amantis*, *The Owl and the Nightingale*, and *The Land of Cockayne*.

320 Renaissance Literature Spring. 4 credits.

M W F 12:20. B. B. Adams.

The major literary movements of the sixteenth and seventeenth centuries are surveyed, with particular attention to the works of Spenser, Marlowe, Shakespeare, Donne, Jonson, Webster, Herbert, and Milton.

330 Restoration and Eighteenth-Century Literature Spring. 4 credits.

M W F 1:25. F. Bogel.

A broad survey covering works by the major poets, dramatists, and novelists of the period, with particular emphasis on Dryden, Pope, Swift, Fielding, Sterne, and Johnson.

333 The Eighteenth-Century English Novel Fall. 4 credits.

M W F 1:25. H. Shaw.

Form and meaning in the eighteenth-century English novel. The course concentrates first on Richardson and Fielding, then on experiments with novel form toward the end of the century, and finally on the ways in which Austen and Scott draw upon and transform elements of the eighteenth-century tradition in fiction. Works by Richardson, Fielding, Sterne, Smollett, Radcliffe, Austen, and Scott.

340 The Romantic Poets Fall. 4 credits.

M W F 11:15. S. M. Parrish.

A close reading of the poems of Blake, Coleridge, Wordsworth, Byron, Shelley, and Keats, together with some of their letters and their critical writings.

345 The Victorian Period Spring. 4 credits.

T R 12:20–1:35. D. Mermin.

The poetry of Tennyson, Browning, Arnold, and the Pre-Raphaelites; two novels, *Great Expectations* and *Middlemarch*; selections from works by Carlyle, Ruskin, Mill, Darwin, Pater, and others; plays by Wilde and Shaw.

350 The Early Twentieth Century (to 1914) Fall. 4 credits.

M W F 10:10. D. R. Schwarz.

Critical study of major works by Hardy, Conrad, Lawrence, Joyce, Eliot, Yeats, Hopkins, Wilde, and others. While the emphasis will be upon individual works, some attempt will be made to place the authors and works within the context of literary and intellectual history. The course will seek to define the development of literary modernism in England by

reference to these authors' innovations in themes and techniques. These literary works will be examined as part of a transition in British culture that takes place between 1890 and 1914.

351 Modern Literature since 1914 Spring. 4 credits.

M W F 10:10. P. L. Marcus.

Interpretations of modern English and Anglo-Irish poetry, fiction, and drama. Lectures and discussions. Some attention will be given to intellectual history and to parallel movements in the other arts. Authors will include Joyce (*Ulysses*), Yeats, Eliot, Shaw, Lawrence, Woolf, O'Casey, Auden, and Beckett.

Major English Authors

319 Chaucer Spring. 4 credits.

M W F 11:15. R. E. Kasse.

The main emphasis is on *Troilus and The Canterbury Tales*, but some attention will also be given to the early poems and the question of Chaucer's development as a poet.

327 Shakespeare Fall. 4 credits.

M W F 9:05. H. S. McMillin.

An introduction to the works of Shakespeare, based on a selection of plays representative of the stages of his artistic development and the range of his achievement.

329 Milton Fall. 4 credits.

M W F 9:05. M. Radzinowicz.

An introduction to the poetry of John Milton. Of the major poems, *Comus*, *Lycidas*, *Paradise Lost*, and *Samson Agonistes* will be closely read; other of Milton's works will be considered only when necessary to establish context.

Major Periods of American Literature

361 Early American Literature Fall. 4 credits.

M W F 11:15. M. J. Colacurcio.

The literature of ideas produced by America's Puritan and Enlightenment writers: Bradford, Taylor, Edwards, and Franklin. The first achievements of the national literature: Irving, Cooper, Poe, and Hawthorne.

362 The American Renaissance Spring. 4 credits. English 361 recommended, but not a prerequisite.

M W F 10:10. M. J. Colacurcio.

America's literary maturity at mid-century: the individual masterpieces and the interrelated careers of Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson.

363 The Age of Realism and Naturalism Fall. 4 credits.

T R 10:10. C. Strout.

The literary expression of new attitudes toward American society and the individual between the Civil War and the early years of the twentieth century, primarily as exemplified in representative writings by Mark Twain, W. D. Howells, Henry James, Mary Wilkins Freeman, Charles W. Chesnut, Henry Adams, Stephen Crane, and Theodore Dreiser.

364 American Literature in the Twentieth Century Spring. 4 credits.

M W F 9:05. J. Bishop.

A pursuit of the idea of modernity through a variety of American texts from just before the First World War to the present. The authors represented include the principal poets from Frost to Lowell; Fitzgerald, Hemingway, and Faulkner from the standard writers of prose fiction; and some more recent black writers, women writers, critics, and journalists.

Genres and Special Topics

366 The Earlier American Novel: Brockden Brown to Henry James Fall. 4 credits.

T R 2:30–3:45. D. E. McCall.

A survey of major American novels of the nineteenth century. Writers studied include Hawthorne, Melville, Mark Twain, Howells, Chopin, and James.

367 The Modern American Novel Spring, 4 credits.

M W F 1:25. W. Slatoff.

A survey of major American novels of the twentieth century. Writers studied include Dreiser, Crane, Fitzgerald, Hemingway, West, Wright, Faulkner, Agee.

370 The Nineteenth-Century English Novel Spring, 4 credits.

M W F 12:20. T. L. Jeffers.

Survey of works by major English novelists in the nineteenth century. Probable reading list will include Austen, *Pride and Prejudice*; Thackeray, *Henry Esmond*; Dickens, *Little Dorrit*; Eliot, *Middlemarch*; Meredith, *The Egoist*; Hardy, *Tess of the d'Urbervilles*; Conrad, *Nostramo*.

Creative and Expository Writing

382-383 Narrative Writing 382, fall; 383, spring, 4 credits each term. Prerequisite: English 280-281 or permission of instructor. Each section limited to 15 students.

T R 12:20 or 2:30; plus conferences to be arranged. Fall: J. McConkey, W. Slatoff; spring: A. Caputi, H. Brodkey.

The writing of fiction; study of models; analysis of students' work.

384-385 Verse Writing 384, fall; 385, spring, 4 credits each term. Prerequisite: English 280-281 or permission of instructor. Each section limited to 15 students.

T 2:30-4:25. Fall: A. R. Ammons, P. Janowitz; spring: R. Morgan, K. McClane.

The writing of poetry; study of models; analysis of students' poems; personal conferences.

386 Seminar in Writing: Autobiography Fall, 4 credits.

T R 11:15. T. L. Jeffers.

A course in autobiographical writing, complemented by study of autobiographies of artists, scientists, politicians, philosophers, soldiers, nonprofessional workers. Frequent essays in which students begin to write their own autobiographies. Attention to the different forms autobiography can take, and to the different shapes adult life can be given. Readings in such authors as Augustine, Gibbon, Darwin, Mill, Henry Adams, Graves, T. E. Lawrence, Orwell, C. S. Lewis, and Malcolm X.

388-389 The Art of the Essay 388, fall; 389, spring, 4 credits each term. Prerequisite: permission of instructor. Each section limited to 18 students.

T R 11:15 and conferences to be arranged.

For both English majors and nonmajors who have done well in such courses as Freshman Seminars or English 288-289, and who desire intensive practice in writing expository and personal essays; particular, but not exclusive, emphasis on expository techniques of analysis and persuasion.

Courses for Advanced Undergraduates

Most courses of the 400 level are limited in enrollment and require the permission of the instructor.

402 Topics in Criticism: Semiotics and Cultural Criticism Spring, 4 credits.

T R 12:20. L. Green.

An introduction to critical assumptions underlying semiotics such as the belief that signs and, consequently, texts, have value only within a cultural and historical context. As one of the field's original thinkers, Saussure, put it, semiotics is "the study of the life of signs within society." The course will examine the possibilities of cultural and historical criticism inherent in semiotics. We will read texts by Saussure, Marx, and Freud as well as their revisionary descendants, Derrida, Foucault, and

Althusser. In addition, we will explore practical applications of such theorizing in the literary criticism of Barthes, Eagleton, and Jameson.

405 Readings in the Humanities: The Sacred and the Profane Fall, 4 credits.

T R 12:20. J. McConkey.

A study of perhaps the most fundamental concern of literature: the relationship between the sacred (the intuited Oneness within or beyond the phenomenal world) and the profane (the phenomenal world, in all its variety and disparate meanings). The texts will be selected to represent changing emphasis in this relationship from the time of Augustine to our own century and to give students a perspective on contemporary attitudes to this dual concern. Texts will include Augustine's *Confessions*; *Tristan and Iseult* (the Bedier version); Shakespeare's *Tempest*; Fielding's *Tom Jones*; Eliot's *Mill on the Floss*; and Forster's *A Passage to India*. Several short papers and a longer essay.

407 Seminar in the Theory and Practice of Translation (also English 607) Spring, 4 credits.

Limited to 15 students.

T 3:35-5:30. E. Fogel.

Students will be expected to produce finished translations from writers of their choice and, with the aim of clarifying their principles of translation, to evaluate the work of notable modern translators. Topics to be considered: literal, free, and faithful translation; paraphrase and "imitation"; problems of prosody, rhetoric, and diction; self-translation (Nabokov, Beckett, Borges, and others).

408 Evolution of Epic Spring, 4 credits

T R 10:10-11:25. M. Radzinowicz.

The course is concerned with the poetic and thematic transformation of a genre often and prematurely called dead. It will explore such topics as epic tradition and poetic originality; the bard and his presence or absence; the social and historical components of heroic virtue; and unity and fragmentation in long poems. Readings, sometimes in selections, will include Spenser, *The Faerie Queene*; Milton, *Paradise Lost*; Dryden, *The Hind and the Panther*; Blake, *Milton*; Wordsworth, *The Prelude*; Whitman, *Song of Myself*; Melville, *Clarel*; William Carlos Williams, *Paterson*. A final epic poem may be chosen by the class from among Berryman, *Dream Songs*; Lowell, *History*; David Jones, *Anathemata*.

415 The English Language (also English 615) Spring, 4 credits.

Hours to be arranged. B. B. Adams.

A basic survey of the historical development of English from the Anglo-Saxon period to the present, with special reference to the needs and interests of students of literature.

421 Spenser (also English 621) Fall, 4 credits.

T R 12:20-1:35. C. Kaske.

Epithalamion, selections from *Amoretti*, *Muiopotmos*, *Mother Hubbard's Tale*, *Fowre Hymnes*, *Mutabilitie Cantos* will occupy one third of the course. Graduate students will read the entire *Faerie Queene*, while undergraduates will read selections totaling about half of it.

425 Readings in Seventeenth-Century Poetry: Donne, Jonson, Marvell, Dryden Fall, 4 credits.

T R 10:10-11:25. D. Novarr.

Critical study of poems by four influential writers of the Metaphysical and neoclassical traditions. Emphasis on technique and genre (lyric, love elegy, epithalamion, epigram, epistle, ode, satire, mock-epic, and others).

426 Poetry and Music in the English Renaissance (also Music 426 and English 626) Spring, 4 credits.

W F 12:20-1:35. B. Rosecrance (English) and E. Murray (music).

A survey of English poems and their musical settings from late medieval times to the early seventeenth

century, with emphasis on the interrelations of music and text. Some attention will also be given to historical background and social context. The course will consider selected medieval lyrics, the words and music of the early Tudor songbooks, relevant European settings and texts, the English madrigal composers, and the ayre. Besides anonymous settings and lyrics, settings by Fayrfax, Henry VIII, Tallis, Byrd, Gibbons, Morley, Weelkes, Wilbye, Dowland, and Campion; lyrics by Wyatt, Vaux, Surrey, Raleigh, Spenser, Sidney, Shakespeare, Campion, and Donne will be represented. No theoretical training in music is assumed.

427 Studies in Shakespeare Spring, 4 credits.

T R 8:40. T. Murray.

The course will cover several Shakespeare plays and have two primary concerns. First, it shall focus on the development of the students' abilities to read Shakespeare with care and critical attention. Second, it will provide an introduction to certain critical approaches to Shakespeare: psychoanalytic, philosophic, semiotic, structural, and rhetorical. Several critical essays will be discussed. In addition to a term paper, students will write two short analyses of plays and lead seminar discussions based on them.

429 Milton and Romantic Poetry Spring, 4 credits.

T R 10:10. C. Chase.

This course will focus on the poetry of Milton and on three of the Romantic poets for whom his influence was essential: Blake, Wordsworth, and Shelley. Reading Milton, we will try to see what in his poems the Romantics found important for their sense of their position in the history of English poetry. Reading Blake, Wordsworth, and Shelley, we will look at the different kinds of impact Milton's poetry had on their writing—the role of allusion, the psychological effect of recognizing a great predecessor, and conceptions of history and poetry drawn from reading *Paradise Lost* and Milton's other works.

432 The Age of Johnson (also English 632) Fall, 4 credits.

T R 10:10-11:25. D. D. Eddy.

A study of the prose and poetry of Dr. Johnson, Boswell's *Life of Johnson*, and representative works of Goldsmith, Reynolds, and others.

434 Restoration and Eighteenth-Century Drama Fall, 4 credits.

M W F 12:20. L. Brown.

A course in the form and development of English drama in the Restoration and eighteenth century. This course will consider the relation between the changes in dramatic form and the changes in society from 1660 to 1780. In particular, it will trace the conflicted transition from Restoration aristocratic plays to eighteenth-century bourgeois drama. And finally, it will attempt to formulate an answer to a major generic question of the century: Why does the drama decline in this period of literary history? Readings will include plays by Dryden, Etherege, Wycherley, Otway, Congreve, Rowe, Steele, Gay, Fielding, Lillo, Goldsmith, and Sheridan.

441 Wordsworth and Keats Fall, 4 credits.

M W F 10:10. R. Parker.

Readings in Wordsworth's major narrative and lyric poems in the decade 1797-1806, and in all of Keats's major poems. Related readings in prefaces, letters, and contemporary criticism. Some attention to formal, biographical, and literary contexts, but the primary focus is on the poems themselves.

447 Victorian Poetry Spring, 4 credits.

T R 2:30-3:45. P. Sawyer.

A close study of Tennyson, Browning, Hopkins, and Hardy. We will give particular attention to the development of the dramatic monologue (the poet speaking through the mask of a character), the creation of new, sometimes idiosyncratic styles (the poet speaking through the mask of his voice), and

two recurrent themes — the relation of individual poetic vision to social needs and the experience of nature as a "terrible beauty" in which God is elusive or absent. The readings will include three longer poems, *In Memoriam*, *Idylls of the King*, and *The Wreck of the Deutschland*.

450 The History of the Book Spring. 4 credits. Prerequisite: permission of instructors. Limited to 20 students.

M 7–9 p.m. D. Eddy and P. Kahn. Morphology of letters (calligraphy and type). Abbreviations and their cultural significance. Printing and its terminology. The book trade. Texts and their transmission. The book as a physical object. The impact of the book on social and economic changes. The book as a work of art.

452 English Literature and Its Intellectual Contexts: Edwardians and After (also English 654) Fall. 4 credits.

T 1:25. B. Rosecrance. A study of selected twentieth-century English novelists, critics, historians and philosophers. Novelists will include Arnold Bennett, D. H. Lawrence, E. M. Forster, and Virginia Woolf. Other figures to be considered are Leslie Stephen, G. B. Shaw, T. E. Hulme, F. M. Ford, A. Orage, Roger Fry, Clive Bell, G. E. Moore, Leonard Woolf, J. M. Keynes, and Lytton Strachey. Although the course will focus on the late Edwardian and Georgian contexts, we will consider intellectual and artistic developments after World War I, concluding with selected fiction of Virginia Woolf. Besides the fiction, we will discuss such topics as Postimpressionism, the role of intellectual and literary periodicals, and the Bloomsbury movement's concern with philosophy, politics, and the writing of history.

457 Contemporary Fiction Spring. 4 credits. M W F 12:20. H. Brodkey. Topic for 1981 to be announced.

459 Four Modern Masters: Pirandello, Brecht, Beckett, Pinter Fall. 4 credits. M W F 2:30. A. Caputi.

A study of selected works by these figures against the background of modernism since World War I.

462 Dickinson and Whitman (also Women's Studies 462) Fall. 4 credits.

M W F 1:25. D. Fried. A study of poems and selected letters by Emily Dickinson, and of *Leaves of Grass* and selected prose by Walt Whitman. We shall discuss Dickinson's and Whitman's individual achievements and their complementary voices in American literature. Topics will include their modes of poetic autobiography, their critique of religion, and the variety of critical responses these two idiosyncratic writers have subsequently generated. We shall consider biographical, psychological, historical, and feminist approaches to their work. Requirements will include seminar presentations and two short papers culminating in a longer essay.

464 American History and the Literary Imagination (also English 691) Spring. 4 credits. W 1:25–3:20. C. Strout.

A study of the interplay between the literary and historical imaginations in various forms of narrative with a focus on certain controversial American events such as the Salem Witchcraft trial, the Nat Turner slave revolt, Huey Long's career, the Oppenheimer Security Hearing, the Rosenberg spy case, and the March on the Pentagon. Texts include literary works by Hawthorne, Adams, Twain, Mailer, Styron, Warren, Miller, and Doctorow; pertinent documents; and readings in controversies over interpretation and the overlap between history and literature.

465 Mark Twain and Henry James (also English 663) Fall. 4 credits.

M 1:25–3:25. C. Strout. A comparative study of the literary careers of Mark

Twain and Henry James in relation to selected stories, novels, and essays in their biographical and cultural contexts.

466 The Artist in Society: Poetry of the Sixties and Seventies Spring. 4 credits.

M W F 9:05. P. Janowitz. The seminar will examine the ways in which poetry has been shaped by the artist's psychological predisposition, historical context, and the cultural milieu. Readings will include poets in translation as well as English and American poets. Poets whose works we will examine will include Robert Lowell, Alan Ginsberg, A. R. Ammons, Charles Bukowski, Elizabeth Bishop, Denise Levertov, Frank O'Hara, Ted Hughes, and Philip Levine. Grades will be based on papers, oral reports, and contributions to class.

467 Afro-American Literature Spring. 4 credits. Limited to 20 students.

T R 8:40–9:55. K. McClane. A survey of Afro-American literature from Charles Chesnut to the present, with emphasis on the history, cultural assumptions, and relationship of Afro-Americans to "mainstream" America. Much of our interest will be in defining what is indeed a survival aesthetic — be it in the folkloric tradition of High John De Conquer or the double-edged satisfactions of the blues. Readings will include Dubois, Cullen, Hurston, Hughes, Wright, Ellison, Baldwin, and Imamu Baraka.

469 Modern American Poetry Fall. 4 credits. Limited to 15 students.

T R 10:10. E. Fogel. A reading of outstanding poems by American poets, including Whitman, Dickinson, Frost, Eliot, Stevens, Williams, Lowell, and Ammons.

470 Modern British Fiction Spring. 4 credits. M W F 9:05. P. L. Marcus.

Intensive study of works by D. H. Lawrence (*The Rainbow*, *Women in Love*), James Joyce (*Ulysses*), and Virginia Woolf (*Mrs. Dalloway*, *To the Lighthouse*). Topics include the impact of the First World War, tradition and experiment, "male and female," the significance of art.

471 History into Fiction Fall. 4 credits. Open to nonmajors.

T R 12:20. H. Shaw. What makes a historical novel "historical"? Answers to this question are sought by exploring works of historical fiction by such authors as Scott, Balzac, Thackeray, Dickens, and Tolstoy. Some attention is given to literary theory, the philosophy of history, and the various authors' historical sources, but the primary focus is on the works themselves. Our discussions should provide a fruitful meeting ground for people with different areas of interest and expertise; non-English majors are welcome.

474 The Bildungsroman in English Fall. 4 credits. M W F 12:20. T. L. Jeffers.

A study of novels about growing up, with emphasis on the moral, sexual, and social development of the self. Much attention to helping students speak to one another in essays and in discussion. Probable reading list: Dickens, *David Copperfield*; Eliot, *The Mill on the Floss*; James, *What Maisie Knew*; Forster, *The Longest Journey*; Joyce, *A Portrait of the Artist as a Young Man*; Woolf, *Jacob's Room*; Dreiser, *An American Tragedy*; Drabble, *Jerusalem the Golden*.

478 Women and Writing: Wollstonecraft to Woolf (also Women's Studies 478) Fall. 4 credits.

M W F 11:15. M. Jacobus. The course will focus on works by and about women, clustering in four main areas: Romantics and after (such writers as Mary Wollstonecraft, Mary Shelley, Emily Brontë), Victorians (Charlotte Brontë, Tennyson, Elizabeth Barrett Browning), the New Woman Fiction of the 1890s (Hardy, Olive Schreiner, Gissing), and modernists (Gertrude Stein, Katherine Mansfield, Virginia Woolf). The aim will be twofold: first, to

consider questions about women's writing and the representation of women and women's issues; second, to complement an examination of the sexual and political ideology in literature with readings from seminal feminist documents and with current theoretical work towards a specifically feminist critique.

479 Reading Woman Poets (also Women's Studies 479) Spring. 4 credits.

T R 12:20. S. Siegel. An examination of the traditional controversy over whether or not reading, writing, and gender are related to one another. Detailed study of the autobiographical, critical, and poetic writings of Amy Lowell, Hilda Doolittle, Marianne Moore, Sylvia Plath, and Adrienne Rich. The seminar will consider salient departures from conventional poetic modes and themes and the pressures each poet has felt to be significant in her attempt to shape herself, her esthetic, and her poetry. Discussion will begin with a specific question which will recur throughout the semester: How would Virginia Woolf have read these poets?

480–481 Seminar in Writing 480, fall; 481, spring. 4 credits. Limited to 15 students. Prerequisites: English 382–383 or 384–385, and permission of instructor.

T 12:20–2:15. Fall: D. McCall; spring: J. McConkey. Intended for those writers who have already gained a basic mastery of technique. Students normally enroll for both terms and should be capable of a major project — a collection of stories or poems, a group of personal essays, or perhaps a novel — to be completed by the end of the second semester. Seminars are used for discussions of the students' manuscripts and published works that individual members have found of exceptional value.

482 Poetics for Poets and Critics Spring. 4 credits. Limited to 10 students.

M 7–9:30 p.m. J. Stalworthy. Designed for poets prepared to take Yeats's advice, "learn your trade, / Sing whatever is well made," and for critics wishing to study the ways in which the principal verse forms of English poetry have been adopted and adapted through the centuries. Each week's assignment will be an example of the form under discussion, from blank verse and ballad, sonnet and villanelle, to "shaped" and "concrete" poems.

491 Honors Seminar I: Forms of Distance in Modern Fiction Fall. 4 credits.

T R 2:30. W. Slatoff. A study of selected modern novels with emphasis on the problems of sympathy and distance which engage the authors, characters, and readers. Readings will probably include Conrad's *Secret Agent*; Forster's *A Room with a View* and *A Passage to India*; Woolf's *To the Lighthouse*; Greene's *The Heart of the Matter*; Patrick White's *The Aunt's Story*; West's *Miss Lonelyhearts*; Faulkner's *As I Lay Dying*; Nabokov's *Lolita*; Baldwin's *Another Country*; and Agee's *Let Us Now Praise Famous Men*.

492 Honors Seminar II: Poetry and Poetics: Victorian and Modern Spring. 4 credits.

T R 12:20. D. Mermin. A study of post-Romantic poetic theory and practice, focusing on the works of Browning, Arnold, Yeats, and Eliot, and considering such topics as generic innovation, the relation of the poet to his readers, and the use of myth.

Courses Primarily for Graduate Students

Permission of the instructor is a prerequisite for admission to courses numbered in the 600s. These are primarily intended for graduate students, although qualified undergraduates are not excluded. Undergraduates seeking admission to a 600-level

course should consult the appropriate instructor. The list of courses given below is illustrative only; a definitive list, together with course descriptions and class-meeting times, will be published in a separate department brochure before course enrollment each term.

- 601 The Vikings** Fall. 4 credits.
R. T. Farrell.
- 607 Theory and Practice of Translation** Spring. 4 credits.
E. Fogel.
- 612 Beowulf** Spring. 4 credits.
R. T. Farrell.
- 613 Middle English Literature** Fall. 4 credits.
R. E. Kaske.
- 615 History of the English Language** Spring. 4 credits.
B. B. Adams.
- 619 Chaucer** Spring. 4 credits.
R. E. Kaske.
- 621 Spenser** Fall. 4 credits.
C. Kaske.
- 623 The Metaphysical Poets** Fall. 4 credits.
D. Novarr.
- 627 Shakespeare: The Histories and Comedies** Spring. 4 credits.
S. McMillin.
- 630 Studies in the Eighteenth Century** Spring. 4 credits.
Instructor to be announced.
- 632 The Age of Johnson** Fall. 4 credits.
D. D. Eddy.
- 635 Austen and Scott** Fall. 4 credits.
H. Shaw.
- 641 The Other Romantics: DeQuincey, Hazlitt, Lamb** Fall. 4 credits.
M. Jacobus.
- 642 Romantic Masterworks** Spring. 4 credits.
M. H. Abrams.
- 645 Victorian Poetry** Fall. 4 credits.
D. Mermin.
- 654 English Literature and Its Intellectual Contexts in the Early Twentieth Century** Fall. 4 credits.
B. Rosecrance.
- 663 Twain and James** Fall. 4 credits.
C. Strout.
- 664 Frost and Elliot** Spring. 4 credits.
J. Bishop.
- 665 Williams and Stevens** Fall. 4 credits.
L. Green.
- 667 Modern American Literature: Forms of Hope and Despair** Spring. 4 credits.
W. Slatoff.
- 671 Conrad, Lawrence, Joyce** Fall. 4 credits.
D. Schwarz.
- 692 Freud and Literature** Fall. 4 credits.
N. Hertz.
- 693 Semiotics and Marxist Literary Criticism** Spring. 4 credits.
L. Green.

Graduate Seminars

Permission of the instructor is a prerequisite for admission to any course numbered in the 700s. Most of these courses may be limited in enrollment at the discretion of the instructor. For course descriptions see the department brochure.

- 701 Introduction to Research and Scholarly Methods** Fall. 2 credits.
S. M. Parrish.
- 702 Introduction to Criticism and Literary Theory** Spring. 2 credits.
J. Culler.
- 727 Studies in Shakespeare (The Sources)** Fall. 5 credits.
B. B. Adams.
- 729 Milton** Spring. 5 credits.
M. Radzinowicz.
- 741 Keats** Spring. 5 credits.
S. M. Parrish.
- 755 Hardy** Spring. 5 credits.
M. Jacobus.
- 759 Woolf** Spring. 5 credits.
S. Siegel.
- 780.1 Writing Seminar** Fall. 5 credits.
A. Lurie.
- 780.2 Writing Seminar** Fall. 5 credits.
R. Morgan.
- 781.1 Writing Seminar: Poetry** Spring. 5 credits.
A. R. Ammons.
- 781.2 Writing Seminar: Prose** Spring. 5 credits.
L. Herrin.
- 793 Master's Essay** Fall or spring. Noncredit.
Staff.
- 794 Directed Study** Fall or spring. 5 credits.
Staff.
- 795 Group Study** Fall or spring. 5 credits.
Staff.
- 796 Teaching and Research** Fall or spring. 5 credits.
Staff.

Related Courses in Other Departments

In addition to courses offered by the Departments of Comparative Literature and Women's Studies and the Africana Studies and Research Center, the following courses will be of particular interest to English majors and graduate students in English.

Classics

Word Power (Classics 100)

Introduction to Rhetoric (Classics 109)

Myths of Greece and Rome (Classics 150)

Ancient Epic (Classics 238)

Greek and Roman Historians (Classics 245)

Comparative Literature

Culture as Semiotic System (Comparative Literature 295)

Comedy (Comparative Literature 312)

Medieval Literature (Comparative Literature 343-344)

Classic and Renaissance Drama (Comparative Literature 352)

Literature of Europe in the Renaissance (Comparative Literature 356)

Literature of Europe since 1800 (Comparative Literature 357)

European Novel (Comparative Literature 363-364)

History and Theory of Drama (Comparative Literature 381)

Hume and Rousseau (Comparative Literature 416)

Readings in the New Testament (Comparative Literature 429)

Allegory and Symbolism (Comparative Literature 446)

Renaissance Public Theater (Comparative Literature 452)

Critical Perspectives: Roland Barthes (Comparative Literature 606)

Society for the Humanities

Culture and Ideology (Society for the Humanities 419)

The Formal Versus the Formless: A Reading of Contemporary American Poetry (Society for the Humanities 421)

The Tradition of the New in American Poetry (Society for the Humanities 422)

The Roots of Narrative (Society for the Humanities 427)

Primitivism in Nineteenth and Early Twentieth Century Art and Thought (Society for the Humanities 428)

Theatre Arts

American Drama and Theatre (Theatre Arts 336)

European Drama (Comparative Literature 353)

Play and Period (Theatre Arts 424)

Theatre and Society (Theatre Arts 434)

Seminar in Dramatic Criticism (Theatre Arts 636)

Seminar in Dramatic Theory (Theatre Arts 637)

French

See Modern Languages, Literatures, and Linguistics, p. 92 and Department of Romance Studies, p. 101.

Geological Sciences

Freshman and Sophomore Courses

101 Introductory Geological Sciences Fall or spring. 3 credits.

2 lecs, 1 lab, evening exams, field trips.

C. S. Hutchison, fall; J. M. Bird, spring.
Understanding the natural earth, weathering, erosion, the evolution of coast lines and river valleys.

glaciation, the origins of earthquakes and mountains, the genesis of volcanoes, and the drifting of continents. Studies of ground water, mineral deposits, petroleum, and coal. Recognizing major minerals and rocks, interpretation of topographic and geologic maps.

102 Introduction to Historical Geology Spring. 3 credits. Prerequisite: Geological Sciences 101 or permission of instructor.

2 lecs, 1 lab, evening exams. J. L. Cisne.
A continuation of 101. History of the earth and life in terms of evolutionary processes. The geologic record, its formation, and interpretation of earth history. Introduction to the evolution of life and to fossils and their use in reconstructing past environments and dating rocks.

103 Earth Science Fall. 3 credits (see Geol 105, Earth Science Laboratory)

3 lecs. T. Jordan.
Physical geography, including earth and lunar orbits that determine seasons and tides. Figure and structure of the earth; climatic regions; atmospheric and oceanic circulation, erosion by rivers, glaciers, wind, and waves, climatic change.

105 Earth Science Laboratory Fall. 1 credit. To be taken concurrently with Geol 103, Earth Science.

T. Jordan.
Astronomical determination of position and seasonal events. Topographic mapping and map interpretation. Minerals and rocks, world climatic regions.

107 Frontiers of Geology I Fall. 1 credit. May be taken concurrently with or after Geological sciences 101.

1 lec. J. L. Cisne and staff.
Lectures by members of the department on selected fundamental topics of current interest, such as continental drift and related tectonic processes, volcanoes, earthquake prediction, natural energy sources, and mineral resources.

108 Frontiers of Geology II Spring. 1 credit. May be taken concurrently with or after Geological Sciences 101 or 102.

1 lec. J. L. Cisne and staff.
Lectures by members of the department on selected fundamental topics of current interest such as plate tectonics, the evolution of mountain belts and island arcs, the deep structure of continents, ecology and evolution of fossil organisms, correlation of strata by fossils, sea-level changes, and fossil fuels.

[131 Geology and the Environment Fall. 3 credits. Field trips. Not offered 1980–81.

2 lecs, 1 lab.
The principles of geological science, with emphasis on the physical phenomena and rock properties as they influence the natural environments of man.]

262 Mineral and Energy Resources and the Environment Spring. 3 credits.

2 lecs, 3 exercises; reading assignments, term projects. A. K. Gibbs.
Occurrence, location, and scientific principles underlying the availability of mineral and energy resources of today and tomorrow. Limitations on utilization imposed by economic and environmental factors, hazards, patterns of usage, and industrial development. Relation to national and international policy and conservation.

Junior, Senior, and Graduate Courses

Of the following, the core courses Geological Sciences 325, 345, 355–356, 376, and 388 may be taken by those who have successfully completed Geological Sciences 101–102 or the equivalent, or who can demonstrate to the instructor that they have adequate preparation in mathematics, physics, chemistry, biology, or engineering.

325 Structural Geology and Sedimentation Spring. 4 credits. Prerequisite: Geological Sciences 101 or permission of instructor.

3 lecs, 1 lab. C. S. Hutchison.
Nature, origin, and recognition of geologic structures. Behavior of geologic materials. Geomechanical and tectonic principles applied to the solution of geologic problems. Introduction to the sedimentary processes and petrology of sedimentary rocks. Description, classification, provenance, transportation, depositional environment of sediments, and diagenesis of sediments.

345 Geomorphology Spring. 4 credits. Prerequisite: Geological Sciences 102 or permission of instructor. Normal fall course offered spring 1981.

2 lecs, 1 lab. A. L. Bloom.
Description and interpretation of land forms in terms of structure, process, and stage.

355 Mineralogy, Petrology and Geochemistry I Fall. 4 credits. Prerequisite: Geological Sciences 101 or permission of the instructor.

2 lecs, 2 labs; assigned problems and readings. W. A. Bassett.
Examination of minerals by hand specimen properties and optical microscopy. Geological setting, classification, crystal structures, phase relations, chemical properties, and physical properties of minerals are studied. X-ray diffraction is introduced.

356 Mineralogy, Petrology, and Geochemistry II Spring. 4 credits.

2 lecs, 1 lab; assigned problems and readings; field trips. R. W. Kay.
Principles of phase equilibrium as applied to igneous and metamorphic systems. Description, classification, chemistry, origin, regional distribution, and dating of igneous and metamorphic rocks. Geochemical distribution of trace elements and isotopes in igneous and metamorphic systems. The petrological evolution of the planets.

376 Historical Geology and Stratigraphy Fall. 4 credits. Recommended prerequisite: Geological Sciences 102.

2 lecs, 2 labs. J. L. Cisne, S. Bachman.
Formation of sedimentary rocks. Depositional processes. Depositional environments and their recognition in the stratigraphic record. Correlation of strata in relation to time and environment. Seismic stratigraphy. Geological age determination. Reconstruction of paleogeography and interpretation of earth history from stratigraphic evidence.

388 Geophysics and Geotectonics Spring. 4 credits. Prerequisites: Mathematics 112 and Physics 208 or equivalent.

3 lecs, 1 lab. B. L. Isacks.
Global tectonics and the deep structure of the solid earth as revealed by investigations of earthquakes, earthquake waves, the earth's gravitational and magnetic fields, and heat flow.

410 Experiments and Techniques in Earth Sciences Spring. 2 credits. Prerequisites: Physics 207–208 and Mathematics 191–192 or equivalents, or permission of instructor.

S. Kaufman.
Lab and field experiments chosen in accordance with students' interests. Familiarization with instruments and techniques used in earth sciences. Independent work is stressed.

423 Petroleum Geology Fall. 3 credits. Recommended prerequisite: Geological Sciences 325.

2 lecs, 1 lab; field trip. S. B. Bachman.
Introduction to hydrocarbon exploration and development. Source rock and fluid migration studies, oil and gas entrapment, reservoir rocks. Exploration techniques including basin analysis, subsurface mapping, seismic reflection methods and processing, seismic mapping, seismic stratigraphy.

Drilling techniques, well logs and their use in stratigraphic and structural interpretations, leasing and economics, career development.

[424 Tectonics of Orogenic Zones; Modern and Ancient Spring. 3 credits. Prerequisite: permission of instructors. Offered alternate years. Not offered 1980–81.

1 lec. W. B. Travers, D. E. Karig.
A comparative study of island arcs and mountain ranges.]

[428 Geomechanics Spring. 3 credits. Prerequisites: Mathematics 240 or 296, Geological Sciences 101. Not offered 1980–81.

3 lecs. D. L. Turcotte.
Use of mathematical analysis to explain such geological observations as ocean ridges — their thermal structure, elevation, heat flow, and gravity; ocean trenches — the structure and mechanics of the bending lithosphere; folding — buckling, viscous, and plastic flow, faulting — a detailed mechanical and geological study of the San Andreas fault; intrusives — geothermal power.]

431 The Earth's Crust: Structure, Composition, and Evolution Fall. 3 credits. Prerequisites: Geological Sciences 356 and 388.

3 lecs. L. D. Brown.
Structure and composition of the crust from geophysical observations, analysis of xenoliths, and extrapolation of petrological laboratory data. Radioisotopic considerations. The nature of the crust-mantle boundary. Thermal and rheological structure of the crust. Oceanic vs. continental crust. Origin and evolution of oceanic and continental crust.

432 Digital Processing and Analysis of Geophysical Data Spring. 3 credits. Prerequisites: Geological Sciences 488 and familiarity with a programming language.

3 lecs. L. D. Brown, S. Kaufman.
Sampling theory. Fourier, Laplace, and Z-transform techniques. Spectral and cepstral analysis. Temporal and spatial filtering. Geophysical modeling. Deconvolution, migration, and velocity analysis of reflection data. Downward and upward continuation of potential field data.

[433 Interpretation of Seismic Reflection Data Spring. 3 credits. Prerequisite: Geological Sciences 488 or equivalent. Not offered 1980–81.

2 lecs, 1 lab. L. D. Brown, S. Kaufman.
Techniques for inferring geologic structure and lithology from multichannel seismic reflection data. Data processing sequences; migration, velocity analysis, correlation criteria, resolution considerations, wave form analysis, and synthetic seismograms. Synergistic approaches to interpretation. Seismic stratigraphy.]

454 Modern Petrology Fall. 3 credits. Prerequisite: Geological Sciences 356. Offered alternate years.

2½ lecs, ½ lab. R. W. Kay.
Magmas and metamorphism in the context of plate tectonics. Major and trace element chemistry and phase petrology as monitors of the creation and modification of igneous rocks. Temperature and stress in the crust and mantle and their influence on reaction rates and textures of metamorphic rocks. Application of experimental studies to natural systems. Reading from the literature and petrographic examination of pertinent examples.

455 Isotope Geology Fall. 3 credits. Prerequisite: Geological Sciences 355–356 or equivalent.

3 lecs. R. W. Kay.
Nucleosynthetic processes and the isotopic abundance of the elements. Dating by Pb, Ar, Sr, and Nd isotope variations. Theories of crustal and mantle evolution. Pleistocene chronology using U-series and ¹⁴C dating. Time constants for geochemical cycles. The use of O and H isotopes as tracers in the earth's hydrosphere, and hydrothermal circulation systems.

456 Chemical Geology Spring. 3 credits.

Prerequisite: Geological Sciences 355–356 or equivalent.

3 lec. W. A. Bassett, R. W. Kay.

Crystallography and crystal chemistry of minerals and the methods for their study. Thermodynamic evaluation of homogeneous and heterogeneous equilibrium and disequilibrium processes of geologic interest. Topics include crystal symmetry, mineral structures, x-ray diffraction, mineral equilibrium, and diffusion in minerals.

461 Mineral Deposits I Fall. 4 credits. Prerequisite:

Geological Sciences 356 or permission of instructor.

3 lec, 1 lab, field trip. A. K. Gibbs.

Introduction to mineral resources; sedimentary and magmatic deposits; topics in geochemistry; ore microscopy; and exploration methods.

462 Mineral Deposits II Spring. 4 credits.

Prerequisite: Geological Sciences 461 or permission of instructor.

3 lec, 1 lab, field trips. A. K. Gibbs.

Hydrothermal ore deposits; sulphide systems; related geochemical topics; mineral exploration.

471 Invertebrate Paleontology and Biostratigraphy Fall. 4 credits. Prerequisite:

Geological Sciences 102 and 376 or permission of instructor. Recommended prerequisite: some knowledge of biology.

2 lec, 1 lab. J. L. Cisne.

Fossil invertebrates. Anatomy, classification, and identification of stratigraphically important groups. Applications of paleontology to geochronology and reconstruction of past environments.

473 Stratigraphy Spring. 3 credits. Prerequisite:

Geological Sciences 376 or permission of instructor.

2 lec, 1 lab, field trip. S. B. Bachman.

Interaction of sedimentation and tectonics in development of stratigraphic sequences. Framework of deep ocean, active margin, passive margin, and cratonic sedimentation and stratigraphy. Seismic stratigraphy and the effects of sea-level changes on the stratigraphic record; sedimentary petrology and tectonism. Examples of modern and ancient margin and cratonic development.

[483 Marine Tectonics Fall. 3 credits.

Prerequisites: Geological Sciences 325 and a course in physics or geophysics. Not offered 1980–81.

2 lec, possible field trips. D. E. Karig.

Study of geophysical and geological characteristics of the earth's crust beneath the oceans. Review of strengths and limitations of marine exploratory techniques. Emphasis on recent geologic data concerning plate margins in the ocean, especially the island arc systems.]

[485 Physics of the Earth I Fall. 3 credits. Limited

to upperclass engineers, majors in the physical sciences, and others by permission of instructor. Not offered 1980–81.

2 lec, 1 lab. D. L. Turcotte.

Rotation and figure of the earth, gravitational field, seismology, geomagnetism, creep and anelasticity, radioactivity, earth's internal heat, continental drift, and mantle convection.]

488 Introduction to Geophysical Prospecting

Fall. 3 credits. Prerequisites: Physics 112–213 and Mathematics 191–192, or equivalents, or permission of instructor.

2 lec. S. Kaufman.

Physical principles, instrumentation, operational procedures, and interpretation techniques in geophysical exploration for oil, gas, and minerals. Seismic reflection, seismic refraction, gravity, and magnetic and electrical methods of exploration.

490 Senior Thesis Fall or spring. 2 credits.

Staff.

Thesis proposal to be discussed with adviser during the junior year. Participation requires acceptance of a thesis proposal by the faculty committee.

610–623 Seminars and Special Work Fall and

spring. 2 or 3 credits each term. Prerequisite:

permission of instructor.

Advanced work on original investigations in geological sciences. Topics change from term to term.

610 Tectonic and Stratigraphic Evolution of Sedimentary Basins W. B. Travers.**611 Petrology and Geochemistry** R. W. Kay.**612 Coastal Geomorphology or Quaternary Geology** A. L. Bloom.**613 Marine Geology** D. E. Karig.**614 Sedimentary Petrology and Tectonics** S. B. Bachman.**615 Topics in Mineral Resource Studies and Precambrian Geology** A. K. Gibbs.**616 Plate Tectonics and Geology** J. M. Bird.**617 Paleobiology** J. L. Cisne.**618 Geophysics, Exploration Seismology** L. D. Brown.**619 Earthquakes and Tectonics** B. L. Isacks.**620 Exploration Seismology, Gravity, Magnetism** S. Kaufman.**621 Geophysics, Seismology and Geotectonics** J. Oliver.**622 Geomechanics, Gravity, Magnetism, Heat Flow** D. L. Turcotte.**623 Mineralogy and Crystallography, X-ray Diffraction, Microscopy, High-Pressure-Temperature Experiments** W. A. Bassett.**[642 Glacial and Quaternary Geology** Spring.

3 credits. Prerequisite: Geological Sciences 345 or permission of instructor. Not offered 1980–81.

2 lec, 1 lab; several Saturday field trips.

A. L. Bloom.

Glacial processes and deposits and the stratigraphy of the Quaternary.]

681 Geotectonics Fall. 4 credits. Prerequisite:

permission of instructor.

2 lec. J. M. Bird.

Theories of orogeny; ocean and continent evolution. Kinematics of lithosphere plates. Rock-time assemblages of modern oceans and continental margins, and analogs in ancient orogenic belts. Time-space reconstructions of specific regions. Problems of dynamic mechanisms — corollaries and evidence from crustal features.

685 Advanced Geophysics I Fall. 3 credits.

Prerequisite: Geological Sciences 388 or 485.

3 lec. D. L. Turcotte.

Mantle convection, heat flow, the driving mechanism for plate tectonics, the energy balance, definition of the lithosphere.

686 Advanced Geophysics II Spring. 3 credits.

Prerequisite: Geological Sciences 388 or 485.

3 lec. D. L. Turcotte.

Gravity, figure of the earth, earth tides, magnetism, mechanical behavior of the lithosphere, changes in sea level.

[687 Seismology I Fall. 3 credits. Prerequisite:

T&AM 611 or equivalent. Offered alternate years. Not offered 1980–81.

3 lec-recs. B. L. Isacks.

Generation and propagation of elastic waves in the earth. Derivation of the structure of the earth and the mechanism of earthquakes from seismological observations.]

688 Seismology II Spring. 3 credits. Prerequisite:

Geological Sciences 687.

B. L. Isacks.

A continuation of Geological Sciences 687.

Field Courses

[601 Intersession Field Trip January intersession, 1 credit. Prerequisites: Geological Sciences 101–102 or equivalent and permission of instructor. Travel and subsistence expenses to be announced. Not offered 1980–81.

A trip of one week to ten days in an area of interesting geology in the lower latitudes. Interested students should contact the instructor during the early part of the fall semester.]

604 Western Adirondack Field Course Spring. 1 credit.

One week at the end of the spring semester.

W. A. Bassett.

Field mapping methods, mineral and rock identification, examination of Precambrian metamorphic rocks and lower Paleozoic sediments, talc and zinc mines. Students should be prepared for overnight camping and will have to pay for their own meals.

704 Western Field Course Spring. 6 credits.

Prerequisites: four courses in Geological Sciences at the 300 level, and permission of instructor. Students should be prepared for overnight camping and will have to pay for their own meals.

Weekly rec and 35-day trip to California, Nevada, and Utah. Staff.

A comparative study of California Coast Range, Sierra Nevada, Basin and Range of Nevada, and Uinta Mountains, Utah. Pretrip seminars and extensive reading at Cornell. Study of Mesozoic ophiolites, and subduction near San Luis Obispo, California; recent earth movements along the San Andreas Fault near San Francisco; granitic pluton emplacement and volcanism in the northern Sierra Nevada; multiphase mountain building near Dixie Valley, Nevada, sedimentology and block faulting of the Uinta Mountains, Utah. Five-day raft trip on the Green River through the core of the Uinta mountains. Visit to an oil field in California and a mine in Nevada. Lectures and field trips with local experts.

German

See Department of German Literature, p. 96, and Modern Languages, Literatures, and Linguistics, p. 92.

Government**Introductory Courses****111 The Government of the United States**

Spring. 3 credits.

T. J. Lowi.

An introduction to government through the American experience. Concentration on analysis of the institutions of government and politics as mechanisms of social control.

131 Introduction to Comparative Government and Politics Spring. 3 credits.

M. J. Esman.

A survey of the institutions, processes, and major problems of politics and government in contemporary

states. The structures and ideologies of different regimes, the relationships of individuals and groups to the state, the shaping and implementation of public policy, the regulation of political conflict, and the adaptation of political systems to changing conditions.

161 Introduction to Political Theory Fall. 3 credits.

W. J. Dannhauser.
A survey of the development of Western political theory from Plato to the present. Readings from the work of the major theorists; an examination of the relevance of their ideas to contemporary politics.

181 Introduction to International Relations Fall. 3 credits.

G. H. Quester.
An introduction to the basic concepts and practice of international politics.

Freshman Seminars

100 Freshman Seminars Fall or spring. 3 credits.
Seminars will be offered in both the fall and spring terms. Consult the supplement issued by the department and the Freshman Seminar booklet for course descriptions and instructors.

Major Seminars

300 Major Seminars Fall or spring. 4 credits.
Consult the supplement issued by the department for course descriptions and instructors. Admission by application only. Forms are provided each term for students to indicate their seminar preferences and are available in 125 McGraw Hall. Nonmajors may be admitted upon application but government majors are given priority. Majors are encouraged to take at least one seminar course during the junior or senior year.

The following courses are open to sophomores, juniors, and seniors without prerequisites unless otherwise indicated.

American Government and Institutions

Government 111 is recommended.

302 The Impact and Control of Technological Change (also Economics 302 and CRP 440)

Spring. 4 credits.
S. Del Sesto.
The role of technology as a factor in social, economic, and political change is examined. Issues, institutions, and mechanisms in the control of technology, particularly environmental regulation, are discussed.

[303 American Democracy and the Limits to Growth 4 credits. Not offered 1980-81.]

309 Interpretation of American Politics. Fall.

4 credits.
R. King.
The study of politics is always a theoretical enterprise. This course shall attempt to move beyond the description of specific institutions and policies to survey a broad literature bearing upon the general question: What sort of polity exists in America?

310 Power and Poverty in America Spring.

4 credits.
R. King.
The United States is a stratified society conspicuous for great disparities in the allocation of income and wealth. Given democratic political institutions, one might have expected substantial popular efforts at redistribution. After reviewing the surprisingly small net fiscal effect of the federal government, we shall turn to explicitly welfare programs, surveying their particular forms and results. The principal goal for the term is to examine poverty policies insofar as they shed light on the conventional social science question: Who rules America? Attention will be given

to competing interpretations of the partition of political power, to the modes of organization and participation of the poor, and to conditions necessary for significant readjustments in policy focus.

311 Urban Politics Fall. 4 credits.

M. Shefter.
The interaction between urban problems and the politics of city government has resulted in important public policy issues in the United States. This course provides an introduction to the politics of metropolitan areas; analysis of the central institutions and processes of urban government such as mayors, city councils, elections, and the criminal justice system; and specific public policy problem areas such as race relations, education, housing, law enforcement, and civil disorder.

312 Urban Affairs Laboratory Fall or spring (if 40

students register). 4 credits. Open to both undergraduate and graduate students but by application only (forms are available at G32 Uris Hall). Fee for course materials, \$20.
D. E. Van Houweling, P. Vaughan.

An interdisciplinary course in urban affairs that emphasizes learning by experience in an urban game rather than lectures or reading assignments. By playing roles in a simulated city, students test their solutions for environmental and other urban problems. The roles include city councilperson, city manager, environmental quality agency director, newspaper editor, industrialist, community organizer, land speculator, and planner.

313 The Nature, Functions, and Limits of Law

Spring. 4 credits.
K. L. Hanslowe.
A general education course for students at the sophomore and higher levels. Law is presented not as a body of rules, but as a set of varied techniques for resolving conflicts and dealing with social problems. The roles of courts, legislatures, and administrative agencies in the legal process is analyzed, considering also the constitutional limits on their power and practical limits on their effectiveness. Readings consist mainly of judicial and administrative decisions, statutes and rules, and commentaries on the legal process.

[314 Common Law and Lawyers in America

4 credits. Not offered 1980-81.]
316 The American Presidency Fall. 4 credits.
A. T. Dotson.
Analysis of the politics of the presidency and the executive branch with emphasis on executive-legislative relations, executive branch policymaking, and the problems of the modern presidency.

317 Political Parties and Elections Spring.

4 credits.
B. Ginsberg.
The relationship between citizen participation and public policy is one of the central questions of democratic politics. This course will focus on American voting behavior, the role of political parties, and the links between citizens' choices at the polls and the behavior of public officials.

318 The American Congress Spring. 4 credits.

M. Shefter.
The role of Congress in the American political system. Topics to be discussed: the political setting within which Congress operates, the structure of Congress, the salient features of the legislative process, and recent congressional behavior in a number of policy areas.

319 American Political Behavior Spring.

4 credits.
P. G. Leeds.
Examines those factors (political, social, economic, and psychological) that affect the formation, development, and organization of political opinions

and attitudes and the impact of these political attitudes on an individual's political behavior. The main focus of the course concerns the interplay between normative requirements for participation in a democratic society and the actual empirical investigation of the existing quality and level of participation in the United States.

[321 Public Policy and Public Revenues

4 credits. Not offered 1980-81.]

323 The "Fourth" Branch Spring. 4 credits.

A. T. Dotson.
The national administrative branch is examined. Particular attention is given to the constitutional and political problems that result from the rise of administrative power.

327 Civil Liberties in the United States Spring.

4 credits.
J. Rabkin.
An analysis of contemporary issues in civil liberties and civil rights, with emphasis on Supreme Court decisions. Cases are analyzed in terms of democratic theory and the social and political context in which they arose.

328 Constitutional Politics: The United States

Supreme Court Fall. 4 credits.
J. Rabkin.
The course investigates the role of the Supreme Court in American politics and government. It traces the historical development of constitutional doctrine and the institutional role the court has played in American politics.

406 Politics of Education Fall. 4 credits.

E. W. Kelley.
Education is simultaneously America's biggest business and the set of formal and informal processes through which skills and values are passed on to the next generation. A topic involving both basic values and so much money must be the subject matter of politics. This course will deal with conflicts about and the politics of education as they occur at both national and state levels. What (including values) will be taught, to whom; who will benefit from formal education as a vehicle for entry into economic opportunity? What are the powers and restrictions on both state and national government in this area? How does the American system, in particular, its politics, differ from other systems? These and other questions, like the effects of constitutional, electoral, and legislative rules and structures on educational policies, will be considered.

[411 Political and Economic Power in Cities

4 credits. Not offered 1980-81.]

412 Size of the State Spring. 4 credits.

R. King.
The size and scope of government has become a particularly important political issue in recent years. We tend, however, to suffer from considerable ignorance regarding the patterns and biases of policy in America. This course is intended as a research workshop to trace the expansion of the federal government and its programs and to develop relevant explanations.

426 Science, Technology, and Public Policy (also

B&PA NPA 504) Spring. 4 credits.
R. Brickman.
The major trends, issues, and implications of the public policies supporting research and technological innovation are reviewed. General problems such as the organization of science policymaking in government and the impact of policies on university and industrial research and development are covered. Specific sectors of research and development policy to be discussed include military research, energy research, and science and technology in international affairs.

428-429 Government and Public Policy: An Introduction to Analysis and Criticism 428, fall; 429, spring. 4 credits each term. Open to undergraduates with permission of instructor.
T. J. Lowi.

The analysis and criticism of public policies and the governments and politics responsible for them is stressed in Government 428. 429 is a weekly workshop for a smaller group, concentrating on problems for research, writing, and publication.

Comparative Government

Government 131 is recommended.

330 Soviet Union: Politics, Economics, and Culture Fall. 4 credits.

M. Rush, G. Gibian, and G. Staller.
Interdisciplinary survey of the USSR since the Revolution, with emphasis on contemporary developments.

[332 Politics and Society in France and Italy 4 credits. Not offered 1980-81.]

333 Government and Politics of the Soviet Union Spring. 4 credits.

M. Rush
A focus on the politics of the top leaders, the institutions through which they operate, and the impact of their policies on the Soviet people. Emphasis is also on phases in the development of the Soviet system on the ways in which the Soviet Union served as the prototype for all subsequent Communist states, as well as on the variant forms that have appeared in other states.

[334 Business and Labor in Politics Fall. 4 credits. Not offered 1980-81.]

[335 Cuba: Culture and Revolution 4 credits. Not offered 1980-81.]

340 Latin American Politics Spring. 4 credits

E. G. Kenworthy.
An introduction to the national politics of the larger Latin American nations, focusing on the post-1964 era. Explanations for the dominant pattern of authoritarian rule will be sought, and alternatives to this pattern explored.

[341 Society and Politics in Central Europe 4 credits. Not offered 1980-81.]

342 Government and Politics of Canada Fall. 4 credits.

M. J. Esman.
This course is an introduction to the government and politics of Canada. It will emphasize the following subjects: (1) the operations of a Federal system in a large and heterogeneous country within the framework of a cabinet-parliamentary system of government at both the Federal and Provincial levels; (2) tensions between English and French speaking Canadians and their effects on the political and economic unity of the country; (3) Canada's experience with economic management and comprehensive welfare state programs; and (4) the changing pattern of relations between Canada and the United States.

[344 Government and Politics of Southeast Asia 4 credits. Not offered 1980-81.]

[346 Politics in Contemporary Japan 4 credits. Not offered 1980-81.]

347 Chinese Government and Politics Spring. 4 credits.

D. P. Mozingo.
An examination of the politics of modern China including the breakdown of the traditional order and the revolutionary struggle of the Chinese Communist party. Primary emphasis on the institutions, methods, policies, and problems of the Communist regime since 1949.

[348 Politics of Industrial Societies 4 credits. Not offered 1980-81.]

349 Political Role of the Military Fall. 4 credits.
B. R. O'G. Anderson.

Comparative study of selected modern states and types of political systems in which the military have played a major role in domestic politics. Attention is given to the social and ideological character of the politicized military and various forms of military government.

350 Comparative Revolutions Spring. 4 credits.
D. P. Mozingo.

An analysis of major revolutionary movements since World War II; their sociopolitical origins, ideology, and organization, with special emphasis on contrasting strategies and roads to power.

351 Local Democracy in Britain and France Spring. 4 credits.

D. Ashford.
Comparison of municipal and local government policies with particular interest in central controls, municipal reform and local politics in unitary systems of government. The impact of the welfare state on local democracy and participation will be studied as it relates to regional politics and planning, spending controls, party organization and voluntary organizations. The central question will be how, if at all, local democratic influence is exercised over policymaking at higher levels of government.

352 The Roots of Greek Civilization (also Near Eastern Studies and College Scholar 346) Fall. 4 credits. Prerequisite: permission of instructor.

M. Bernal.
The course will investigate the present paradigm or general framework used to explain the origins of Mycenaean and Classical Greece. It will focus on the use of history, linguistics, and archeology to sustain it. The course will then examine the rise and social context of each of these disciplines and the political function of ancient Greece in the nineteenth and twentieth centuries. There will be a close reading of fifth century Greek writers on their past. An alternative paradigm will then be suggested and the problems of competing paradigms will be discussed.

Some knowledge of Greek and/or Hebrew would be helpful but it is not necessary. The Greek writers will be read in English and although ability to read the originals would be an advantage, the questions being studied can be approached through the translated texts.

353 Women and Politics (also Women's Studies 353) Spring. 4 credits.

M. Katzenstein.
This course considers alternative ideologies about the relationship between men and women in the family and in the marketplace; the strategies that women have used to assert claims to equality; and the results of government policies for the status of women in both liberal and revolutionary societies.

[355 From Politics to Policy: The Political Economy of Choice 4 credits. Not offered 1980-81.]

356 Elites and Society: The Political Economy of Power Spring. 4 credits.

N. T. Uphoff.
For students who have an interest in the nature and uses of power in politics. Consideration of how power has been treated by earlier political thinkers and by contemporary social scientists. Propositions will be formulated and critiqued about the distribution and consequences of power in America, other industrialized societies, and in the Third World, and their implications for the making of public policy. A game-simulation, "Third World Power Play," is undertaken at the end of the course.

[357 Political Development in Western Europe 4 credits. Not offered 1980-81.]

[358 Politics of the Middle East 4 credits. Not offered 1980-81.]

430 The Politics of Productivity: Germany and Japan Fall. 4 credits.

P. Katzenstein, T. J. Pempel.
Defeated in World War II, West Germany and Japan today are among the most prosperous, stable democracies in the industrial world. In the postwar era West Germany and Japanese policies reflect an osmosis of American political precepts, imposed by the occupation forces, overlaid onto historical traditions marked by delayed industrialization, authoritarianism, and fascism. This course analyzes key aspects of West German and Japanese political strategies at home and abroad in the light of their domestic power structures and international constraints.

[435 Politics of Decentralization and Local Reform 4 credits. Not offered 1980-81.]

446 Comparative Communism Spring. 4 credits.
M. Rush.

This seminar deals with regimes that claim to be committed to the Marxist-Leninist program for the realization of socialism and communism. Similarities and differences among countries of the Soviet bloc, China, and Yugoslavia are investigated.

456 Policymaking in Britain and France 4 credits. Fall.

D. Ashford.
Historical and contemporary efforts to shape the social, economic, and institutional forces within unitary governments. The major problems to be considered are control of the bureaucracy, economic planning, industrial relations and trade unions, devolution and regional movements, race and migrant labor policies. The central issue will be who makes policy in the European welfare state.

[459 Politics in Contemporary Europe: The Politics of the Left 4 credits. Not offered 1980-81.]

Political Theory

Government 161 is recommended.

361 Modern Ideologies: Liberalism and Its Critics Spring. 4 credits.

I. Kramnick
Since the rise of capitalism, one political ideology has been dominant in the Western world — liberalism. However, its hegemony has been questioned by a series of critics: democracy, socialism, anarchism, conservatism, Freudianism, and feminism. This course will study the tensions between liberalism and these critics and speculate on the possible survival or extinction of this venerable and very American ideology.

[363 Classics in Political Thought 4 credits. Not offered 1980-81.]

364 Liberty, Equality, and the Social Order Fall. 4 credits.

D. Meyers.
We consider the accounts of liberty and equality provided by several major political philosophers, including Hobbes, Locke, Rousseau, and Mill; and we examine their proposals for embodying these concepts in political institutions. We will also read recent discussions of these issues.

[367 The Logic of Liberalism 4 credits. Not offered 1980-81.]

368 Economic Models of Politics Fall. 4 credits.

E. W. Kelley.
Economic factors influencing the structure of political systems and economic models of such systems are

considered. The rationalistic presumptions underlying some such models are introduced and modified. Applications to enduring policy arenas may be made.

[373 Feminist Political Thought 4 credits. Not offered 1980–81.]

375 American Political Thought Spring. 4 credits. W. J. Dannhauser.

Survey of American political thought with discussion of puritan thought, constitutional theory, selected nineteenth-century literature, and contemporary political science.

376 Marx Fall. 4 credits. S. Buck-Morss.

Readings in Marx's philosophical, economic, and political writings. Analysis of Marxism as a way of thinking: basic concepts and epistemological structures of his theory, within the context of nineteenth-century historical events. Lectures draw on twentieth-century interpretations as an introduction to the historiography of Marxism and its controversies, to the politics of scholarship, and to the creative process involved in the historical reproduction of an idea.

379 Freud Spring. 4 credits. S. Buck-Morss.

Analysis of Freud's own writings on psychological and social theory, clinical practice, and analytic method. Consideration of the political implications of these texts and their philosophical contribution. Critical discussion of post-Freudian revisions of the theory, including Left Freudianism, ego-psychology, and radical feminism.

International Relations

Government 181 is recommended.

382 Integration in the World System Spring. 4 credits. S. Jackson.

This seminar explores theories of interdependence, regional integration, and dependency as particular applications of the generalized concept of integration in the world system. Readings include works by Deutsch, Haas, Keohane, Nye, Lenin, Cardoso.

383 Theories of International Relations Spring. 4 credits. R. Rosecrance.

A survey of relevant theories of international relations, emphasizing war prevention and conflict resolution. Theories will be tested against the international experience of the past two centuries.

384 Defense Policy and Arms Control Spring. 4 credits. G. H. Quester.

The requirements for military defense and the problems caused by it are analyzed. Subjects covered include nuclear deterrence reasoning, military strategy, approaches to disarmament, the working of military-industrial complexes, and defense budgeting and policy procedures.

385 Contemporary American Foreign Policy Fall. 4 credits. R. Rosecrance.

An analysis of the dilemmas that have confronted American foreign policy since 1945, both specific problems and more general questions of capabilities, priorities, and morality.

386 Structure and Process in the Global Political Economy Fall. 4 credits. S. Jackson.

We will examine the global structures and transnational processes which constrain and condition economic development. We will look at global structures through the operations of multinational corporations, international trade, and world debt. We will look at transnational decision

making at the nongovernmental, official bilateral, and official multilateral level, including such actors as governments, the United Nations Conference on Trade and Development, and the Roman Catholic Church, with an emphasis on North-South relations.

387 The United States and Asia Spring. 4 credits. G. McT. Kahin.

The relations of the United States with the major states of Asia and with those smaller countries (especially Vietnam) with which it has been particularly concerned are analyzed. Attention is also given to the relationship of American policy to the Asian policies of France, Great Britain, and Soviet Russia.

389 International Law Fall. 4 credits. L. Scheinman.

Characteristics of international law: its theoretical foundations, principles, processes, and relationship to international politics. Emphasis on law-in-action. Attention to both traditional problems (intervention, coercion, the scope and limits of adjudication) and contemporary trends and processes (arms control, outer space, exploitation of seabed resources, the individual in international law, and cooperative patterns of socioeconomic relations at global and regional level). Content may vary according to international events.

[390 The Foreign Policy of China 4 credits. Not offered 1980–81.]

478 Accumulation on a World Scale Spring. 4 credits. S. Jackson.

In *Accumulation on a World Scale*, Samir Amin has developed the nearest thing to a comprehensive explanation for underdevelopment in the periphery of the world system to emerge from recent critical theorists of global political economy. In this course, we will examine Amin chapter by chapter, looking at the growing body of systematic evidence relevant to an evaluation of Amin's theory.

479 Dependencia and the State Fall. 4 credits. S. Jackson.

In the first half of this course, we will examine closely a sampling of the principal theoretical and empirical works that seek to explain the constraints on and possibilities for state action in dependent societies. We will focus particularly on those factors arising directly from the location of countries in the global system, including the role of multinational corporations, the World Bank, and military aid. In the second half of the course, each student will select and complete a research project on a question related to dependencia and the state. We will operate as a research workshop to define, guide, present, and critique the research being done by each member of the workshop.

[480 Foreign Economic Policies of Advanced Industrial Societies 4 credits. Not offered 1980–81.]

[481 Foreign Policy of the USSR 4 credits. Not offered 1980–81.]

[482 Imperialism and Dependency 4 credits. Not offered 1980–81.]

[483 Political and Economic Interdependence 4 credits. Not offered 1980–81.]

[485 Logic and Methods of Research in International Relations 4 credits. Not offered 1980–81.]

490 International Politics of Energy Spring. 4 credits. L. Scheinman.

The political, economic, and technical dimensions of international energy problems with principal emphasis on alternatives to an oil-based economy,

and in particular nuclear energy. Dynamics of supplier cooperation, national energy policymaking, and corporate behavior are evaluated as are the potential ability of technological changes to transform the nature of the problem. Attention is given to the impact of the energy situation on the course of world order and the structure of international politics.

Political Methodology

[391 Human and Social Statistics 4 credits. Not offered 1980–81.]

Honors Courses

400 Honors Seminar: Political Analysis Fall. 4 credits. Limited to honors students. M. Shefter.

494 Honors Thesis Fall or spring. 8 credits.

In their senior year, honors students will be required to take Government 494, in which they will prepare and write an honors thesis — an extended piece of original independent research. Before the end of the semester that precedes the semester in which the thesis is to be written, each participant must submit an approved proposal to the department office. Proposal forms may be obtained from the undergraduate secretary in 125 McGraw Hall. Honors theses are given to a second reader for evaluation and students are examined orally on their work by the two faculty members involved. In cases where students feel the need for a period of preparatory work before undertaking an honors thesis, they may make use of the option available under Government 499.

Supervised Study

Except under very unusual circumstances supervised study, Government 499, is open only to government majors doing superior work in the major. The application form may be obtained in 125 McGraw Hall and must be approved by the Director of Undergraduate Studies for credit to be granted. There is no limit established for the total number of credits in 499 a government major may take while at Cornell, but he or she may count no more than 4 credits toward fulfillment of the major. Students who wish to continue taking Government 499 for more than one semester must select a new theme or subject each semester, and applicants must present a well-defined program of study that cannot be satisfied by taking regular courses. Credit can be given only for work that results in a satisfactory amount of writing. Emphasis is on the capacity to subject a body of related readings to analysis and criticism. The permission of the instructor is required.

499 Readings Fall or spring. 1–4 credits. Staff.

Graduate Seminars

Qualified undergraduates are encouraged to apply for seminars listed with 600 course numbers. Consult the supplement which lists graduate courses, available in the department office.

Field Seminars

601 Scope and Method of Political Analysis Spring. 4 credits.

P. G. Leeds, R. Rosecrance. This seminar offers an overview of the main problem areas and theoretical orientations in the four subfields of contemporary political analysis: political theory, American politics, comparative politics, and international relations. Selected topics, including questions of research design, are treated through a reading of the best contemporary literature. The broad issues of the philosophy of social science or specific techniques of analysis may also be addressed.

602 Field Seminar in Methodology Fall. 4 credits.
E. W. Kelley.
Some attention is given to general problems of research design and hypothesis formulation. Emphasis is on measurements and hypothesis testing. Topics to be covered include statistics, both parametric and nonparametric; unidimensional and multidimensional scaling; data theory; and causal modeling.

603 Field Seminar in American Politics Fall. 4 credits.
P. Leeds, B. Ginsberg.

The basic issues and institutions of American government and the various subfields of American politics are introduced. The focus is on substantive information and theoretical analysis and problems of teaching and research.

604 Field Seminar in Public Policy Spring. 4 credits.
D. Ashford.

An introduction to the study of public policy. Various analytical approaches will be presented: models of public choice and political economy; analysis of bureaucratic politics, executive and political leadership, and interest groups and public opinion; economic analysis of public finance and welfare economics; and organization theory, game theory, and decision theory as these relate to the analysis of public policy formation and applications.

605 Field Seminar in Comparative Politics Spring. 4 credits.

T. J. Pempel, B. Anderson.
An introduction to selected theoretical problems in the study of comparative politics and to their application in empirical analysis. Basic problems are social class and politics; authority and legitimacy; participation and mobilization; economic development and democracy; authoritarian and totalitarian politics; corporatism and pluralism; nation building and political integration.

606 Field Seminar in International Relations Fall. 4 credits.
P. Katzenstein.

A general survey of the literature and propositions of the international relations field. Criteria are developed for judging theoretical propositions and are applied to the major findings. Participants will be expected to do extensive reading in the literature as well as research.

607 Field Seminar in Political Thought Spring. 4 credits.
I. Kramnick.

An introduction to political theory through a reading of selected classics in political thought from Plato to Marx.

American Government and Institutions

614 Supreme Court, Politics, and the Constitution Spring. 4 credits.
J. Rabkin.

A study of American public and constitutional law.

[618 American Political Behavior 4 credits. Not offered 1980-81.]

621 Elections and Public Policy Spring. 4 credits.
B. Ginsberg.

The relationship between citizen voting and public policy is one of the central questions of democratic politics. This course will focus on American voting behavior, the role of political parties, and the linkages between citizen choices and the behavior of public officials.

[623 Capitalism, the State, and the Economy 4 credits. Not offered 1980-81.]

624 American Political Development Spring. 4 credits.
M. Shefter.

An analysis of the sources of change in American politics, focusing upon periodic realignments in American politics and the consequences of such changes for the nation's political institutions. The applicability of cross-national theories of political development to the United States will be considered. Implications for recent changes in the party system and legislative-executive relations will be discussed.

Public Policy

628 Politics of Technical Decisions I (also B&PA NPA 515 and CRP 541) Fall. 4 credits.
S. Del Sesto.

629 Politics of Technical Decisions II (also B&PA NPA 516 and CRP 542) Spring. 4 credits.

The political aspects of public policy decisions are traditionally regarded as technical problems. Exploration of the concept of technical decisions and the characteristics of a technological society, with discussion of how decisions are determined or limited by the technologies involved, the institutions of technical decision making, the sources and implications of depoliticization, and the rise of citizen opposition to technological development.

Comparative Government

637 Theories of Decentralization Spring. 4 credits.
D. Ashford.

The problem of decentralizing power in the modern state will be analyzed from the perspective of political, spatial, ecological, and functional theories of the modern state. The major efforts to strengthen lower-level governments both regionally and locally will be considered particularly in respect to the exercise of financial, budgetary, and regulatory control by the center. The relative advantages of federal and unitary governments will be assessed in relation to localized control and its effectiveness in formulating and implementing policy in the welfare state.

639 Politics of the Soviet Union Fall. 4 credits.
M. Rush.

A reading seminar on major works dealing with the Soviet political system, with special emphasis on higher politics, recent foreign policy, the nationality question, and the Brezhnev succession.

642 The Politics of Communalism Fall. 4 credits.
M. J. Esman.

Investigation of the politics of racial, ethnic, religious, linguistic, and cultural pluralism. Emphasis is on subnational pluralism, the implications of communal cleavages for political and economic development, and strategies for the managements of various expressions of communal conflict. Relationships between modernization and communal pluralism are focused on, and the manifestation of these phenomena in contemporary United States experience is considered.

[645 Politics of China 4 credits. Not offered 1980-81.]

[647 Political Anthropology: Culture and Revolution in Indonesia (also Anthropology 628) 4 credits. Not offered 1980-81.]

648 Political Economy of Change: Rural Development in the Third World Fall. 4 credits.
N. T. Uphoff.

The substantive focus is on economic, social, and political change in Third World countries, particularly with reference to rural development. The analytical approach integrates economic, social, and political factors into a common framework for dealing with policy choices and political action. Special attention is given to different instruments for promoting rural development in Third World countries.

651 Readings from Mao Zedong Fall. 4 credits
Prerequisite: two years of Chinese or permission of instructor.

M. G. Bernal.
The seminar will study the official and unofficial writings of Mao Zedong in the light of Chinese revolutionary history and Mao's own intellectual development. Special attention will be paid to the Anarchist strands in Mao's thought and to their relative importance vis-a-vis his Marxism-Leninism.

[652 Political Problems of Southeast Asia 4 credits. Not offered 1980-81.]

[655 Latin American Society and Politics 4 credits. Not offered 1980-81.]

656 Comparative Institutions and the Welfare State Fall. 4 credits.

D. Ashford.
An analysis of the prevailing theories about the institutional inadequacies of unitary governments, especially Britain and France. Attention will be given to the difficulties of clearly formulating policy alternatives, the weaknesses of present participatory and electoral arrangements as well as the problems of modern legislatures, party leaders, and party organizations in influencing policy. The tendencies of the welfare state to enhance the power of bureaucracy will be studied using case studies and institutional reform proposals evaluated in the light of the welfare state.

[659 Political Transitions in Western Europe 4 credits. Not offered 1980-81.]

Political Theory

[666 The Political Philosophy of Nietzsche 4 credits. Not offered 1980-81.]

[667 Philosophical Foundations of Contemporary Politics: Rawls and Nozick 4 credits. Not offered 1980-81.]

[668 Foundations of English Liberalism 4 credits. Not offered 1980-81.]

669 Modern Social Theory Fall. 4 credits.
S. Buck-Morss.

Theories that map out as structures the points where personal and social history intersect (in language, cognition, institutions), and developmental theories that deal with temporal transformations of such structures. Readings from the works of Durkheim, Mauss, Saussure, Lévi-Strauss, Althusser and Godelier, Foucault, Aires, Habermas.

670 Toward a Feminist Social Theory Spring. 4 credits.
S. Buck-Morss.

Readings in the nineteenth-century origins of social theory to discover what is *not* there: i.e., a conception of "society" as a space from which women are not excluded, and in which domestic economy is not treated separately from political economy, nor private life from public life, nor personal oppression from political oppression. The course is exploratory. We will criticize old concepts and try to formulate new ones.

673 Economic Models of Politics Fall. 4 credits.
E. W. Kelley.

Both economic factors influencing the structures of political systems and economic models of such systems are considered. The rationalistic presumptions underlying such models are introduced and modified. Applications to enduring policy arenas may be made.

678 Greek Political Philosophy Fall. 4 credits.
W. J. Dannhauser.

Studies in the political thought of Plato and Aristotle. Readings will consist of Plato's *Republic* and *Laws*, Aristotle's *Ethics* and *Politics*.

International Relations

686 International Strategy Fall. 4 credits
R. Rosecrance.

Doctrines of deterrence and defense, particularly upon their interaction in American policy since 1945, are focused on. The relationship between doctrine and the type of international system (bipolar or multipolar) is considered and other means of equilibration in the international system are investigated.

687 The United States and Southeast Asia

Spring. 4 credits.

G. McT. Kahin.

American Southeast Asian policies: their genesis, character, impact, and long-term consequences. Elements involved in the formation of American policies toward Southeast Asia by the several postwar administrations (Truman through Carter) including international factors and American domestic politics. The ways in which these policies have been applied and their influence on political forces within the countries of Southeast Asia and upon American policies towards other countries.

692 The Administration of Agricultural and Rural Development Spring. 4 credits.

M. Esman, N. Uphoff.

The political, bureaucratic, economic, and technical environments of administration for agricultural and rural development; the various functions involved in administration (personnel management, planning, budgeting, economic analysis, information systems); several major tasks (research, extension, services, and infrastructure development); and specific problems of integrating activities, interfacing with rural populations, and utilizing external assistance. Intended primarily for persons who expect to have some future responsibilities in agricultural or rural development administration in Third World countries.

Greek

See Department of Classics, p. 62.

Hebrew

See Department of Near Eastern Studies, p. 108.

Hindi-Urdu

See Modern Languages, Literatures, and Linguistics, p. 92.

History

Freshman Seminars

[105 The Growth of Political Democracy in the United States] Fall. J. H. Silbey. Not offered 1980-81; next offered 1981-82.]

[107 The Family in American History] Spring. M. B. Norton. Not offered 1980-81.]

108 Civil Liberties in the United States Spring. 3 credits. Prerequisite: permission of the instructor.
T R 2:30. R. Polenber.

Freedom of speech and dissent from Jefferson's time to the present, with emphasis on the twentieth century. Topics include Jefferson and Burr; Lincoln and martial law; war and the Supreme Court; the ACLU and the New Deal; the relocation of Japanese-Americans; the cold war and

anticommunism; religious cults and censorship; John Milton, John Stuart Mill, and the critique of libertarianism.

110 Science and Society in Mid-Victorian Britain Fall. 3 credits. Prerequisite: permission of instructor.
T R 3:35-4:50. J. Richards.

The course will focus on intellectual and cultural issues raised by specific scientific advances in Britain in the late nineteenth century. Questions raised by Darwin's evolutionary theory of biology, by attempts to develop sciences for the study of the human mind and human society, and by the development of non-Euclidean geometry are representative of those to be considered. Readings will be taken primarily from the extensive periodical literature of the period, supplemented by occasional secondary treatments of mid-Victorian culture and science.

[112 The North Atlantic Community and the Wider World] Fall. T. H. Holloway. Not offered 1980-81.]

114 Seminar on American Foreign Policy Fall. 3 credits. Open to freshmen and sophomores. Limited to 12 students; preference will be given to non-history majors. Prerequisite: permission of instructor.
T 1:25-3:20. W. LaFeber.

Fall 1980 topic: The presidency and foreign policy in the cold war.

119 Race Relations in American History Fall. 3 credits.
M W 2:30. D. Usner.

A comparative approach to the interaction among Native Americans, Euro-Americans, and Afro-Americans. Major themes and changing contexts of race relations from the colonial period to the present will be explored.

146 America in the Camera's Eye Spring. 3 credits. Open to freshmen and sophomores. Prerequisite: permission of instructor.
M W 1:25. R. L. Moore.

The seminar will attempt to assess the value of visual material (especially photography) in understanding twentieth-century American history. Students will read and view the work of some leading American photographers in an effort to understand how the camera has both reflected and helped create America's perception of itself. Frequent papers aim at helping students develop a vocabulary to articulate their reactions to visual material.

151-152 Introduction to Western Civilization 151, fall; 152, spring. 4 credits each term. History 151 is not a prerequisite to 152. Either term or both may be used to fulfill the Freshman Seminar requirement.

Fall: T R 9:05, plus disc to be arranged; spring: T R 9:05, plus disc to be arranged. L. P. Williams.
A survey of European history, History 151 covers antiquity to the Reformation; 152 spans the sixteenth century to the present day. The major political and social developments and the intellectual heritage of the West are both studied. A considerable portion of the reading is drawn from contemporary sources.

[171 Revolution and Russian Society] W. M. Pintner. Not offered 1980-81.]

[174 Foodways: A Social History of Food and Eating] Fall. S. L. Kaplan. Not offered 1980-81.]

176 Britain and the Second World War Fall. 3 credits. Prerequisite: permission of instructor. Sophomores may enroll.
W 2:30-4:30. Freshman Seminar students must have M 3:35 available for writing class.
D. A. Baugh.

The aim is to uncover the true facts of Britain's conduct and situation from 1936 to 1946. Emphasis is on the fighting on land, sea, and in the air, but preparedness, economic warfare, diplomacy, and

imperial power are considered. Topics include the Battle of Britain, the Battle of the Atlantic, and strategic bombing.

192 Asia in the Western Mind Spring. 3 credits.
W 1:25-3:20. J. V. Koschmann.

Explores the functions of images of Asia and the Orient as they are employed in selected texts of Western literature and philosophy. In conjunction with a critique of such texts, the seminar will take up such problems as exoticism, stereotyping, projection, and the production of knowledge through classification and contrast.

[193 China and the West Before Imperialism] Spring. C. A. Peterson. Not offered 1980-81; next offered 1981-82.]

[194 Chinese Views of Themselves] Spring. S. Cochran. Not offered 1980-81; next offered 1982-83.]

Underclass Seminars

220 English Constitutional History to 1600 Fall. 4 credits. Prerequisite: permission of instructor.
M W 9:05. F. G. Marcham.

A study of Anglo-Saxon law and government; Norman administrative and legal ideas as they relate to monarchy and feudalism; evolution of central government under Henry II; Magna Carta; the evolution of Parliament and the central court system. Examination of laws, charters, royal decrees, financial records, and parliamentary documents, all in translation. Reading and discussion focuses on original documents; occasional lectures supply political narrative.

221 English Constitutional History, 1600 to the Present Spring. 4 credits. Prerequisite: permission of instructor.
M W 9:05. F. G. Marcham.

A study of the Tudor monarchy; constitutional conflicts of the seventeenth century; the Glorious Revolution; evolution of cabinet government; general governmental reform of the nineteenth century; twentieth-century democracy, the welfare state, and a nationalized economy. Statutes, parliamentary debates, court decisions, and the reports of commissions are examined. Reading is in original documents; occasional lectures supply political narrative.

225 Public Life and Literature in Nineteenth-Century Great Britain Fall. 4 credits. Prerequisite: permission of instructor.
T R 9:05. F. G. Marcham.

British political, constitutional, economic, and imperial history are studied in the light of Victorian prose, poetry, and drama. History and literature are both considered; history through lectures and discussions of constitutional documents; literature through comment upon readings. Authors assigned include Macaulay, Carlyle, Tennyson, Mill, Darwin, Huxley, Gilbert and Sullivan, and Shaw.

226 Public Life and Literature in Twentieth-Century Great Britain Spring. 4 credits. Prerequisite: permission of instructor.
T R 9:05. F. G. Marcham.

A study of British political, social, and constitutional history is paralleled by the reading of plays. Both history and literature are considered. The development of parliamentary democracy in Great Britain, the consequences for her of the two world wars, the emergence of the welfare state, the application to the economy of nationalization, and Great Britain's withdrawal from imperialism are presented. Among the writers read and discussed are Shaw, Barrie, Maugham, O'Casey, Sherif, and Eliot.

232 Urban Problems and Policy in Historical Perspective Spring. 4 credits.

R 10:10–12:05. S. Blumin.

This seminar seeks to better understand contemporary urban problems and the policies aimed at solving them by tracing their development over long periods of time in the context of the more general history of the American city. Common readings in American urban history will be followed by individual research projects in particular problem and policy areas.

Comparative History**360 Early Warfare, East and West** Fall. 4 credits.

M W 1:25; disc to be arranged. C. A. Peterson.

A study of the principal modes of warfare found both in the East and the West from ancient times up to the eighteenth century. Tactical evolution and the impact of innovations are stressed, but attention is also paid to the general social background and the role of nonmilitary factors.

[407 Death in Past Time Spring. S. L. Kaplan. Not offered 1980–81.]**[449 Comparative Slave Systems in the Americas** Fall. T. H. Holloway, M. B. Norton. Not offered 1980–81.]**History of Science****281–282 Science in Western Civilization** 281, fall; 282, spring. 4 credits each term. History 281 is not a prerequisite to 282.

M W 10:10, plus disc to be arranged. J. Richards. The development of scientific thought from antiquity to the present. Readings and discussions of original sources.

[284 Undergraduate Seminar in the History of Biology (also Biological Sciences 204 and College Scholar 284) Not offered 1980–81.]**[287–288 History of Biology (also Biological Sciences 201–202)** W. Provine. Not offered 1980–81.]**380 Social History of Western Technology**

Spring. 4 credits.

M W F 1:25. J. H. Weiss.

The interaction between technological changes and social changes in Western Europe and America since the eighteenth century is studied. Both instances of social transformation that accompanied technological changes and the role of technology in social thought and cultural expression receive attention. Special emphasis upon three periods: Britain during the Industrial Revolution, America in the nineteenth century, and America during the Vietnam War.

[385–386 Problems in the History of Biology W. Provine. Not offered 1980–81.]**[481–482 Science in Classical Antiquity**

L. P. Williams. Not offered 1980–81.]

680 Seminar in the History of Nineteenth-Century Physical Science Spring. 4 credits.

Hours to be arranged. L. P. Williams.

American History**201 Introduction to American History: From the Beginning to 1865** Fall. 3 credits. No prerequisites.

M W F 11:15. F. Somkin.

A basic chronological survey of events and problems. Topics include founding of the colonies and development of a colonial economy; the American Revolution and Constitution; Jeffersonian democracy; age of Jackson; westward expansion; North-South crisis and the Civil War.

202 Introduction to American History: From the Civil War to Recent Times Spring. 3 credits. No prerequisites.

Hours to be arranged. D. Usner.

275 Crime and Punishment: The American Vision from the Puritans to Mickey Spillane Fall.

4 credits. Limited to 25 students. No prerequisites.

R 1:25–3:20. F. Somkin.

A reading-discussion course. The changing relation between social sanctions and the transgressor will be examined in selected novels and other materials. Texts include fiction by Cooper, Stowe, Melville, Van Tilburg Clark, Richard Wright, James M. Cain, Dashiell Hammett, and Raymond Chandler.

[311–312 Structure of American Political History

J. H. Silbey. Not offered 1980–81; next offered 1982–83.]

[313–314 History of American Foreign Policy

W. LaFeber. Not offered 1980–81.]

316 Puritanism, the Enlightenment, and the Republic: American Cultural and Intellectual History to 1820 Fall. 4 credits. But

some background knowledge of the period is recommended.

T 1:25–3:20. F. Somkin.

Calvinism (the Puritans, the Protestant ethic, the Great Awakening and Jonathan Edwards); the Enlightenment (science and government); the early Republic (culture and ideology).

317 American Intellectual and Cultural History: The Nineteenth Century Spring. 4 credits. No prerequisites, but some background knowledge is recommended.

M W F 1:25. F. Somkin.

Ideas, movements, and thinkers. Topics include the conflict between ideals and reality, the individual and society; Mormonism; reform movements such as temperance, women's rights, communitarianism, and antislavery; Darwinism; the Gospel of Wealth; the rise of the originality and radicalism in technology, art, literature, and social thought.

318 American Constitutional Development

Spring. 4 credits.

M W F 11:15. M. B. Norton.

A study of the major themes of the constitutional history of the United States. Among the topics to be considered are the drafting of the Constitution, the Marshall and Taney courts, civil rights decisions of the nineteenth century, the rise of substantive due process, and the Warren court.

321 The Development of Early American Society

Spring. 4 credits.

M W F 10:10. D. Narrett.

This course will offer a survey of American history from the Age of Discovery to the outbreak of the American Revolution. Some of the major historical issues to be examined include the European origins of American civilization, the development of viable public institutions in a new society, and changes in the nature of political and social authority over time. Both the readings and lectures will emphasize the ways in which public events intersected with the private experiences of individuals — how American society was shaped by the activities of ordinary people as well as by the actions of famous individuals.

323–324 Native American History 323, fall; 324, spring. 4 credits each term.

M W F 12:20. D. Usner.

A two-semester survey of North American Indians from the beginnings of European contact to the present. Cultural, political, and economic changes experienced by particular societies will be covered. Emphasis given to general themes of Indian-White relations, comparative tribal histories, and the role of Native Americans in the overall history of the United States.

[325 Age of the American Revolution, 1763–1815 Fall. M. B. Norton. Not offered 1980–81; next offered 1981–82.]**326 Women in the American Society, Past and Present** Spring. 4 credits.

M W F 9:05. M. B. Norton.

A survey of women's experiences in America, from the seventeenth century to the present. Among the topics to be discussed are women's familial roles, the changing nature of household work, the women's rights movement, employment of women outside the home, and contemporary feminism.

[330 The United States in the Middle Period Fall.

J. H. Silbey. Offered alternate years. Not offered 1980–81; next offered 1981–82.]

[331 The American Civil War and Reconstruction Spring. J. H. Silbey. Offered

alternate years. Not offered 1980–81; next offered 1981–82.]

[332–333 The Urbanization of American Society S. Blumin. Not offered 1980–81.]**336–337 American Social History** 336, fall; 337, spring. 4 credits each term. History 336 is not a prerequisite to 337.

M W F 11:15. S. Blumin.

A history of American society, with emphasis on the transforming effects of such phenomena as industrialization, urbanization, immigration, national expansion, and institutionalization on the social life of anonymous Americans. The first semester will cover the colonial and Jacksonian eras, with emphasis on the latter; the second semester will focus upon the industrial-urban transformation of the period 1850–1920.

340–341 Recent American History, 1920 to the Present 340, fall; 341, spring. 4 credits each term. History 340 is not a prerequisite to 341.

T R 12:20; disc to be arranged. R. Polenberg.

History 340 topics include individualism and conformity in the 1920s; class, race, and ethnicity in the 1930s; Franklin Roosevelt and the New Deal; World War II, the atomic bomb, and the Nuremberg trials. 341 considers the Supreme Court and civil rights; McCarthyism and civil liberties; Kennedy, Johnson, and social reform; the Vietnam War and the protest movement; Watergate and the Carter presidency.

345 The Modernization of the American Mind

Fall. 4 credits.

M W F 11:15; disc to be arranged. R. L. Moore.

American thought and culture from 1890 to the present. Course emphasizes the intellectual impact of major political and economic events and the adaptation of social ideas and values to new conditions.

[346 Major Themes in American Religious History Not offered 1980–81.]**[411 Undergraduate Seminar in American Political History** J. H. Silbey. Not offered 1980–81.]**414 Motivations of American Foreign Policy** Fall. 4 credits. Prerequisites: History 314 and permission of instructor.

R 1:25–3:15. W. LaFeber.

Topic for 1980: American foreign policy and the Korean War, 1949–52.

[416 Undergraduate Seminar in American Cultural History F. Somkin. Not offered 1980–81.]**[418 Undergraduate Seminar in the History of the American South** J. H. Silbey. Not offered 1980–81; next offered 1981–82.]

419 Undergraduate Seminar In American Social History Fall. 4 credits. Prerequisite: permission of the instructor.

R 10:10–12:05. S. Blumin.
Topic for 1980–81: The evolving class structure of urban America.

[426 Undergraduate Seminar In Early American History M. B. Norton. Not offered 1980–81.]

430 Law and Authority In America: Freedom, Restraint, and Judgment Spring. 4 credits.

Prerequisite: permission of instructor.

T 1:25–3:20. F. Somkin.
A reading-discussion course. Selected themes in the history of American law and authority will be studied. Topics may include the law of business and industry; criminal law; violence; the gun; sex and liquor regulation; anarchism; peculiar anomalies of our justice system.

440 Undergraduate Seminar In Recent American History Fall. 4 credits. Prerequisite: permission of instructor.

T R 2:30. R. Polenber.
Topic for 1980–81: Communism in America, 1917–57.

445 Undergraduate Seminar: Deviance and Conformity in a Liberal Society Spring. 4 credits. Prerequisite: permission of instructor.

T 1:25–3:20. R. L. Moore.
Reading and research to focus on constraints placed on religious practice in democratic America.

516 The Popular Mind in the United States Spring. 4 credits. Open to graduate students, majors in history or American studies, or other qualified students. Prerequisite: permission of instructor.

R 1:25–3:20. F. Somkin.
American popular culture: from the image of the hero and the myth of success to the world of the poolroom, the circus, the minstrel show, the dramatic and vaudeville stage, the cowboy epic, the gangster movie, and the tough-guy novel.

[521 Culture and Tradition in America M. Kammen. Not offered 1980–81.]

[613–614 Graduate Seminar in American Foreign Relations W. LaFeber. Not offered 1980–81.]

[615–616 Seminar in American Cultural and Intellectual History F. Somkin. Not offered 1980–81.]

[617–618 Seminar in Recent American Cultural History R. L. Moore. Not offered 1980–81.]

[619 Seminar in American Social History S. Blumin. Not offered 1980–81.]

[626–627 Seminar in the History of American Women M. B. Norton. Not offered 1980–81.]

[633–634 Seminar in Nineteenth-Century American History J. H. Silbey. Not offered 1980–81.]

[710 Colloquium in American History Fall. 4 credits. Required of all first-year American history graduate students. M 3:35–5:25. Staff. Not offered 1980–81.]

Asian History

190 Introduction to Asian Civilizations Spring. 4 credits.

T R 11:15; disc to be arranged. J. V. Koschmann, C. A. Peterson, and D. K. Wyatt.
An introduction to the distinctive cultures of China, India, Japan, and Southeast Asia, which proceeds by way of a broad examination of a period of particular significance in the history of each.

191 Introduction to Asian Civilizations in the Modern Period Fall. 4 credits.

T R 11:15; plus an additional hour, M 12:20, 1:25, or 3:35. J. V. Koschmann, D. K. Wyatt, and staff.
The history of Asian civilizations in modern times is introduced, focusing on the relationship between key figures and societies. English translations of autobiographies, novels, short stories, diaries, and other documents written by Asians are used to assess the perspectives, social priorities, and historical significance of intellectual and political leaders.

393 History of China Up To Modern Times Fall. 4 credits.

T R 10:10; disc to be arranged. C. A. Peterson.
A broad examination of the major aspects of Chinese culture and civilization from earliest times to the late imperial period. Seeks to expose both those features maintaining continuity and the significant (but frequently overlooked) instances of change.

394 History of China in Modern Times Spring. 4 credits.

T R 10:10; plus an additional hour to be arranged. S. G. Cochran.
A survey that concentrates on the rise of the last imperial dynasty in the seventeenth and eighteenth centuries, the upheavals resulting from domestic rebellions and foreign imperialism in the nineteenth century, and the twentieth-century efforts to achieve social mobilization and political unity.

395 Indochina and the Archipelago to the Fourteenth Century Fall. 4 credits.

T R 11:15; plus one hour to be arranged. O. W. Wolters.
A survey of the early history of Indochina and the Archipelago, with particular attention to questions raised in the source material concerning religious beliefs and political and social assumptions.

396 Southeast Asian History from the Fifteenth Century Spring. 4 credits.

W F 12:30; plus one hour to be arranged. D. K. Wyatt.
A survey focusing on cultural, social, and economic change in Southeast Asia.

398 History of Modern Japan Fall. 4 credits.

M W F 10:10. J. V. Koschmann.
A survey of Japan from the mid-eighteenth to the mid-twentieth centuries with special attention to changing configurations of institutional structure, knowledge, action, and conceptions of history. Major emphasis will be placed on the discussion of Japanese political, literary, and philosophical texts in translation, supplemented by lectures and secondary source materials.

492 Undergraduate Seminar in Medieval Chinese History Spring. 4 credits. Prerequisite: History 393, or permission of the instructor.

Hours to be arranged. C. A. Peterson.
Topic spring, 1980: The external relations of China from early times up to the Ch'ing dynasty. Emphasis will be placed on the interrelationship of Chinese history with Asian and Eurasian history as a whole, culturally as well as politically.

[493 Self and Society in Late Imperial and Twentieth-Century China Fall. S. Cochran. Not offered 1980–81; next offered 1981–82.]

691 Chinese Historiography and Source Materials Spring. 4 credits. Prerequisite: permission of the instructor.

C. A. Peterson.
694 Problems in Modern Chinese History Spring. 4 credits. Prerequisite: permission of instructor.
Hours to be arranged. S. Cochran.

695–696 The Historiography of Southeast Asia 695, fall; 696, spring. 4 credits each term.

Prerequisite: permission of instructor.
Hours to be arranged. O. W. Wolters and D. K. Wyatt.

791–792 Seminar in Medieval Chinese History 791, fall; 792, spring. 4 credits each term.

Prerequisite: permission of instructor.
Hours to be arranged. C. A. Peterson.

[793–794 Seminar in Modern Chinese History S. Cochran. Not offered 1980–81; next offered 1981–82.]

795 Seminar in Southeast Asian History Fall. 4 credits.

Hours to be arranged. D. K. Wyatt.
Topic for fall 1980: eighteenth-century southeast Asia.

Ancient European History

267 The Roman Republic Fall. 4 credits. Open to freshmen.

W F 10:10; disc to be arranged. A. H. Bernstein.
A survey of Roman Republic history from the origin of the city to the assassination of Julius Caesar. Special attention is paid to the development and nature of republican forms of government; to Rome's unification of the Italian peninsula and conquest and governance of the Mediterranean; to the course of the revolution that replaced the Republic with the imperial autocracy of the Caesars. Readings are drawn from the works of Polybius, Sallust, Cicero, Caesar, Livy, and Plutarch.

[268 Rome of the Caesars A. H. Bernstein. Not offered 1980–81; next offered 1981–82.]

[460 Roman Imperialism A. H. Bernstein. Not offered 1980–81; next offered 1981–82.]

461 The Roman Revolution Spring. 4 credits. Limited to 20 students. Prerequisite: History 267 or permission of instructor. An undergraduate seminar.
Hours to be arranged. A. H. Bernstein.
An inquiry into the causes and course of the Roman revolution from 146 to 44 B.C. Students will read from Sallust, Cicero, Caesar, Livy, Plutarch, and Appian, and will study modern analyses of the revolution. Where relevant, comparative materials will be used, especially on revolutions in twentieth-century agrarian societies.

[462 The High Roman Empire A. H. Bernstein. Not offered 1980–81.]

[463 Decline and Fall of the Roman Empire A. H. Bernstein. Not offered 1980–81.]

[561 Social and Economic History of Rome, 60 B.C. to A.D. 117 A. H. Bernstein. Not offered 1980–81; next offered 1981–82.]

[562 Roman Africa A. H. Bernstein. Not offered 1980–81.]

[661 Graduate Seminar in Ancient Classical History A. H. Bernstein. Not offered 1980–81.]

Medieval, Renaissance, and Early Modern European History

257 English History From Anglo-Saxon Times to the Revolution of 1688 Spring. 3 or 4 credits.

M W F 12:20. C. A. Holmes.
A survey of the government, social organization, and cultural and religious experience of the English, laying particular stress on the unification of the realm, the rise of Parliament, changes in agrarian organization, and the development of urban and commercial classes.

263 The Earlier Middle Ages Spring. 4 credits.
M W F 12:20. J. J. John.

A survey of medieval civilization from c. 300 to c. 1100, dealing with religious, intellectual, political, and economic developments in Western Europe.

264 The High Middle Ages Fall 4 credits.
T R 2:30–3:45. B. Tierney.

A survey of medieval civilization from c. 1100 to c. 1450, dealing with religious, intellectual, political, and economic developments in Western Europe. Lectures and class discussions.

350 Early Renaissance Europe Fall 4 credits.
T R 1:25; disc to be arranged. J. Najemy.

An exploration of the intellectual, cultural, religious, and political development of Western Europe from the age of Dante, Ockham, and Marsilius, through the several stages of Italian humanism from Petrarch to Pico, down to the generation of Machiavelli and Erasmus, with some attention to the economic, social, and demographic crises of the fourteenth and fifteenth centuries. Readings and topics about evenly divided between Italy and the North.

[351 Reformation and Counter-Reformation Europe] J. Najemy. Not offered 1980–81.]

[359 The Early Development of Anglo-American Common Law] C. A. Holmes. Not offered 1980–81.]

[361 Introduction to Renaissance Culture (also Comparative Literature 361)] E. Morris, J. Najemy. Not offered 1980–81; next offered 1981–82.]

[365 Medieval Culture, 400–1150] Spring. J. J. John. Not offered 1980–81; next offered 1981–82.]

366 Medieval Culture, 1100–1300 Spring. 4 credits. Prerequisite: History 264 or permission of instructor.

T R 2:30–3:45. J. J. John.
The origin and development of universities will be studied as background for a consideration of the scholastic mentality and its influence on the art, literature, philosophy, science, script, and theology of the period. Readings from Abelard, Hugh of St. Victor, Bonaventure, Thomas Aquinas, Dante, etc.

[367 Church and State during the Middle Ages] B. Tierney. Not offered 1980–81.]

368 Francis of Assisi and the Franciscans Fall. 4 credits. Prerequisite: any introductory course in a medieval subject.

W 2:30–4:30. B. Tierney.
A seminar with lectures, class papers, and class discussions. The course will begin with a detailed study of the early lives of Francis in translation, then consider the impact of the Franciscans on the medieval church and vice-versa.

369 The History of Florence in the Time of the Republic 1250–1530 Spring. 4 credits.
T R 11:15; disc to be arranged. J. Najemy.

Florentine politics and society from the communal period through the age of Dante, the rise and decline of the guild republic, the age of civic humanism, and the rise of the Medici, to the time of Machiavelli. Economic structures and social classes, corporate politics, family history, and political and historical ideas are considered in the context of the emergence and transformation of republican government.

371 History of England Under the Tudors and Stuarts Spring. 4 credits. Prerequisite: permission of instructor.

M W 2:30–4:30. C. A. Holmes.
An examination of the relation between the intellectual developments of the period and political, social, and religious change. Topics for discussion will include political thought, religious toleration, witchcraft, and the role of women and the family.

374 War, Trade, and Empire, 1500–1815 Spring. 4 credits.

M W 2:30–4. D. A. Baugh.
Maritime enterprise, imperial policy, and naval power in the age of expansion. The rise and decline of the Portuguese and Spanish empires are considered, but the emphasis is on English, French, and Dutch rivalry in the Atlantic and Caribbean.

381–382 Self, Family, and Polity in Renaissance Times (The Frederick G. Marcham Seminar; also Society for the Humanities 381–382, and Romance Studies 381–382) 381, fall; 382, spring. 4 credits each term. Limited to 15 students.

Fall: disc, M W 2:30–3:45. Spring: no class meetings; students will pursue independent work in consultation with the instructors. E. Morris, J. Najemy.

An exploration of the relationships between the problematic notions of selfhood, family and community, on the one hand, and historical experience, on the other. The course will use and confront the methods of social history and literary analysis, drawing occasionally on anthropology and psychoanalysis. The three principal texts will be Alberti, *Books on the Family*; Rabelais, *Gargantua and Pantagruel*; Montaigne, *Essays* (all in English translation); additional readings in historical and theoretical works.

[468 Undergraduate Seminar in Renaissance History] J. Najemy. Not offered 1980–81.]

[469 Undergraduate Seminar in Reformation History] J. Najemy. Not offered 1980–81.]

[475 The English Civil War, 1640–60] C. A. Holmes. Not offered 1980–81.]

485 The Transformation of Feudal Society Fall. 4 credits.

Hours to be arranged. C. A. Holmes.
The seminar will examine the ideas of a number of scholars who have suggested that England experienced a major shift in the nature of social organization and relations in the sixteenth century. Theories about feudal society, and its collapse, will be tested against contemporary legal and literary sources concerning the political, social, and religious experience of the English people in the middle ages.

[663 Graduate Seminar in Renaissance History] J. Najemy. Not offered 1980–81.]

664–665 Seminar in Latin Paleography 664, fall; 665, spring. 4 credits each term.

Hours to be arranged. J. J. John.

666 Seminar in Medieval History Fall 4 credits.
Hours to be arranged. J. J. John.

669 Seminar in Medieval History Spring. 4 credits.

Hours to be arranged. B. Tierney.

[670 Seminar in Tudor and Stuart History] C. A. Holmes. Not offered 1980–81.]

Modern European History

[258 English History from the Revolution of 1688 to the Present] D. A. Baugh. Not offered 1980–81.]

[352 The End of the Austro-Hungarian Monarchy, 1848–1918] I. V. Hull. Not offered 1980–81.]

353–354 European Intellectual History in the Nineteenth and Twentieth Centuries 353, fall; 354, spring. 4 credits. each term. History 353 is not prerequisite to 354.

T R 12:20–1:35. D. C. LaCapra.
The focus is on social and cultural thought in France,

Germany, and England. Topics include reactions to the French Revolution and industrialization; the definition of conservative, liberal, and radical perspectives; literature and social thought; varieties of existentialism; the birth and development of the social sciences; psychoanalysis and post-Freudian psychology; linguistic philosophy; and structuralism. Readings for the first term include Tocqueville, Mill, Hegel, Marx, Stendhal, Flaubert, Dostoevsky, Nietzsche, and Durkheim. Readings for the second term include Weber, Freud, Wittgenstein, Sartre, Camus, Mann, and Lévi-Strauss.

[355 The Old Regime: France in the Sixteenth, Seventeenth, and Eighteenth Centuries] S. L. Kaplan. Not offered 1980–81.]

[356 The Era of the French Revolution and Napoleon] S. L. Kaplan. Not offered 1980–81.]

[357 Survey of German History, 1648–1890] I. V. Hull. Not offered 1980–81; next offered fall 1981.]

[358 Survey of German History, 1890 to the Present] I. V. Hull. Not offered 1980–81; next offered spring 1982.]

362 Russian History to 1800 Fall. 4 credits. Open to freshmen.
T R 10:10–11:25. W. M. Pintner.

The origin and development of the fundamental social, political, economic, and cultural institutions that determined the nature of contemporary Soviet society.

[363 Russian History Since 1800] W. M. Pintner. Not offered 1980–81; next offered spring 1982.]

[372 Social and Cultural History of Contemporary Europe] Spring. J. H. Weiss. Not offered 1980–81; next offered 1981–82.]

383 Europe in the Twentieth Century: 1900–45 Fall. 4 credits.

M W F 1:25. J. H. Weiss.
An investigation of the major developments in European history from 1900 to the end of the Second World War. Emphasis upon the development of democratic political systems and their alternatives. Topics include the transforming effects of war and depression, the dynamics of fascism, the European response to the economic and ideological influence of America and the Soviet Union, and the relationship between politics and social structure.

[384 Europe in the Twentieth Century: 1945 to the Present] Spring. J. H. Weiss. Not offered 1980–81; next offered 1981–82.]

[451 Lord and Peasant in Europe: A Seminar in Social History] S. L. Kaplan. Not offered 1980–81.]

[456 Seminar in Germany, 1890–1918] I. V. Hull. Not offered 1980–81.]

[457 Seminar in European Fascism] I. V. Hull. Not offered 1980–81; next offered fall 1981.]

[458 Seminar in Weimar and Nazi Germany, 1918–45] I. V. Hull. Not offered 1980–81.]

[459 The Making of the English Ruling Class, 1660–1780] D. A. Baugh. Not offered 1980–81.]

467 Seminar in Modern European Political History Spring. 4 credits. Prerequisite: History 383 or permission of the instructor.

Hours to be arranged. J. H. Weiss.
Topic for 1981: Resistance, collaboration, and retribution in World War II. A study of the response of individuals, social groups, and political bodies to the extreme pressures of occupation, imprisonment, civil war, and Nazi extermination actions. The concluding section focusses primarily on the war-crimes trials at Nuremberg.

471 Russian Social and Economic History Fall. 4 credits.

M 2:30-4:30. W. M. Pintner.

A seminar devoted to an examination of the transformation of Russia from a backward agrarian nation to the second of the world's superpowers.

[474 Topics in Modern European Intellectual History D. C. LaCapra. Not offered 1980-81.]**[476 Documenting the Depression: Film, Literature, and Memory** J. H. Weiss. Not offered 1980-81; next offered 1981-82.]**[477 The Politics of the Enlightenment** S. L. Kaplan. Not offered 1980-81.]**[478 Seminar in Eighteenth-Century French Social History** S. L. Kaplan. Not offered 1980-81.]**480 Twentieth-Century Britain** Spring. 4 credits. Primarily a discussion seminar.

T 2:30-4:30, R 2:30-3:20. D. A. Baugh.

Lectures focus on key personalities. Seminar topics include Ireland, the 1930s, the world wars and their impact, the decline of Liberalism and rise of Labour, the roots of Britain's economic problems, and the character of English society.

483 Seminar in Modern European Social History Fall. 4 credits.

Hours to be arranged. J. H. Weiss.

Topic for 1980: Getting ahead: Historical perspectives on social mobility and professional advance. Case studies from Modern European and American history investigate why societies are stratified as they are, how some individuals and groups rise to the top and some fall, how those at the top remain there, and the role of education, professionalism, and ideology in shaping these processes.

[655 Seminar in Eighteenth-Century British History D. A. Baugh. Not offered 1980-81.]**[656 Seminar in Nineteenth-Century British History** D. A. Baugh. Not offered 1980-81.]**[671 Seminar in the French Revolution** S. L. Kaplan. Not offered 1980-81.]**672 Seminar in European Intellectual History** Fall. 4 credits.

Hours to be arranged. D. C. LaCapra.

677 Seminar in Russian History Fall. 4 credits. M 2:30-4:30. W. M. Pintner.**678 Seminar in Modern European Social History** Spring. 4 credits.

Hours to be arranged. J. H. Weiss.

Research seminar. Topic for 1980-81: Education, professional structures, and social stratification since 1800.

[679 Seminar in European History S. L. Kaplan. Not offered 1980-81.]**Latin American History****[295 Colonial Latin America** T. H. Holloway. Not offered 1980-81.]**[296 Latin America in the Modern Age** T. H. Holloway. Not offered 1980-81.]**[347 Agrarian Societies in Latin American History** T. H. Holloway. Not offered 1980-81.]**[348 Contemporary Brazil (also Sociology 368)** T. H. Holloway, J. Kahl. Not offered 1980-81.]**[649 Seminar in Latin American History** T. H. Holloway. Not offered 1980-81.]**Honors and Research Courses****301 Supervised Reading** Fall or spring. 2 credits. Prerequisite: permission of instructor. Open only to upperclass students.**302 Supervised Research** Fall or spring. 3 or 4 credits. Prerequisite: permission of instructor. Open only to upperclass students.**400 Honors Proseminar** Fall or spring. 4 credits. For prospective honors candidates who have permission of instructor.

Fall: W 2:30-4:30, D. K. Wyatt; or R 2:30-4:30.

D. A. Baugh. Spring: W 2:30-4:30, J. Najemy.

An introduction to historical writing and modes of research, emphasizing the possibilities and limitations of historical inquiry.

401 Honors Guidance Fall or spring. 4 credits. Prerequisites: History 400 and permission of instructor.**703-704 Supervised Reading** 703, fall; 704, spring. 4 credits each term. Prerequisite: permission of instructor. Open only to graduate students.**Society for the Humanities Seminars of Interest to History Students****Architecture, Man, and Nature in the Early Modern Period (Society for the Humanities 423)****Leonardo da Vinci as a Philosopher of Nature (Society for the Humanities 424)****The Phenomenon of Iconoclasm (Society for the Humanities 425-426)****History of Art****Freshman Seminars**

The history of art courses listed below are offered in the Freshman Seminar Program and as freshman electives, but may not be used to satisfy the distribution requirement.

103 Freshman Seminar in Visual Analysis Fall or spring. 3 credits.

Fall: M W F 9:05, 12:20, or 1:25; or T R 12:20-1:35.

Spring: M W F 9:05, 10:10, 11:15, 12:20, or 1:25; or T R 10:10-11:25. Staff.

The nature of man-made objects, from tools to cities and including such conventional categories as painting, sculpture, and architecture is examined. An introduction to the problems of perceiving such objects and articulating the visual experience. Organized by media and themes rather than chronologically. A supplement, not a prerequisite, to art history.

104 How to Look at Works of Art Fall or spring. 3 credits.

Fall: T R 2:30-3:45, staff. Spring: T R 12:20-1:35.

J. V. Falkenheim; T R 2:30-3:45, H. P. Kahn.

Several major works of art, primarily paintings, are examined in detail. The cultural and historical contexts in which the works were created and their unique qualities as works of art are considered.

105 Myth and Image in Modern Society (also Sociology 103) Fall. 3 credits.

T R 9:05, and one hour to be arranged. H. P. Kahn and R. Golden.

The course views myth as a universal human language. Its components are widely recognizable images and symbols, arranged in structures that validate the legitimacy of a society's moral order. The course, taught jointly by an artist and a sociologist, invites students to analyze certain mythic forms in American society, from mass-produced myths of the media to modern art.

106 Art in a Landscape: Traditional Arts in Southeast Asia Fall. 3 credits.

M W F 10:10. S. J. O'Connor.

The traditional arts in Southeast Asia such as textiles, ceramics, architecture, sculpture, and puppet theatre will be examined in varying social and physical contexts. The aim of the course will be to introduce the works themselves and to explore the way they are, or were, implicated in daily life. We will encounter works created in the palaces and monasteries of the centralized kingdoms, as well as those that are part of the village world. Among the topics to be discussed: Wayang theatre, a world of shadows; batik and ikat, the dyer's art; the life of Buddha in Art; stoneware and porcelain ceramics from Thailand, Cambodia, and Vietnam; temple and art in Bali; and the cosmic mountain in architecture. Emphasis will be on writing short papers.

107 Principles of Architecture Fall. 3 credits. M W F 12:20. T. M. Brown.

Through readings, lectures, and discussions, examination of some theoretical and practical aspects of architecture as it affects our lives.

Related Course in Another Department**Revolution and the Russian Arts (Russian Literature 106)****Introductory Courses**

The following courses are designed to introduce students to the processes and methods of art history by means of a systematic examination of a closely related body of visual material. The courses need not be taken in any particular sequence. One 200-level course is normally the prerequisite to courses at the 300 level.

[200 Introduction to Art History: Mediterranean Archaeology (also Classics 200) 3 credits. Not offered 1980-81.]**[206 Introduction to Art History: Rise of Classical Greece (also Classics 206)** 3 credits. Not offered 1980-81.]**[210 Introduction to Art History: Beginnings of Civilization (also Classics 210)** 3 credits. Not offered 1980-81.]**215 Introduction to Art History: African Art** Spring. 3 credits.

M W F 12:20. N. C. Neaher.

The cultural foundations of art in sub-Saharan Africa, including an examination of masking traditions; royal arts; body aesthetics and figurative sculpture; and domestic and sacred architecture.

220 Introduction to Art History: Classical Archaeology (also Classics 220) Fall. 3 credits.

M W F 10:10. J. E. Coleman.

Classical archaeology is the study of the material culture of the ancient Greeks and Romans. This course, while providing a general framework for an understanding of the complexities of this culture, concentrates for the most part on specific subject matter. Subjects are chosen for their value in illustrating specific questions about the past and the process by which scholars seek to answer these questions. They vary somewhat from year to year but may include among others: architecture, painting, sculpture, the development of writing, burial customs, and coins.

[221 Introduction to Art History: Minoan-Mycenaean Art and Archaeology (also Classics 221) 3 credits. Not offered 1980-81.]**230 Introduction to Art History: Monuments of Medieval Art** Spring. 3 credits.

M W F 11:15. R. G. Calkins.

An introduction to the approaches to art history

through a study of selected works of art from the Middle Ages: architecture, sculpture, painting, manuscript illumination, metal work, and ivory.

240 Introduction to Art History: The Renaissance Spring. 3 credits.

M W F 10:10. C. Lazzaro.

A study of selected works of architecture, sculpture, and painting in Italy and northern Europe from about 1300 to about 1575. Major artists considered include Donatello, Jan van Eyck, Michelangelo, and Bruegel. Various approaches to the understanding of works of art and various interpretations of the Renaissance are explored.

250 Introduction to Art History: The Baroque Era Fall. 3 credits.

M W F 10:10. C. Lazzaro.

A survey of the major artistic trends in western Europe during the seventeenth century. The course will consider architecture, sculpture, and painting in Italy during the first half of the century, and the schools of painting of Spain, Flanders, Holland, and France. Emphasis will be on major masters of the period: Annibale Carracci, Caravaggio, Bernini, El Greco, Velazquez, Rubens, Hals, Vermeer, Rembrandt, Poussin.

261 Introduction to Art History: Modern Art Fall. 3 credits.

T R 10:10–11:25; plus one disc, R 8–9:15, 10:10–11:25, or 12:20–1:35. Discussion sections will sometimes be held in place of the R lec.
R. C. Hobbs.

A topical discussion of some of the major artists, movements, and ideas that make up modern art. Emphasis is on European and American painting in relationship to cultural and intellectual concerns of the period spanning approximately 1850 to present.

[270 Introduction to Art History: American Art 3 credits. Not offered 1980–81.]

280 Introduction to Art History: Asian Traditions Spring. 3 credits.

M W F 10:10. S. J. O'Connor.

Designed to introduce students to the varied responses of the Asian artist in different social and geographical contexts. By selective focus and emphasis, rather than broad survey, the student will gain some familiarity with high-fired ceramics, Chinese landscape painting, Buddhist sculpture and painting of Thailand, Indian miniature paintings, and Japanese prints. A number of class sessions will meet in the Herbert F. Johnson Museum of Art.

290 Introduction to Art History: Architecture and Environment Fall. 3 credits. Limited to 50 students.

M W F 1:25. T. M. Brown.

Emphasis is placed on the social and humanistic aspects of nineteenth- and twentieth-century design. After a lengthy introduction to the architectural categories of space, form, function, and structure, the ideas and forms that have influenced the physical shape of the contemporary world are considered.

Intermediate Courses

The following courses are intended primarily for upperclass students, qualified sophomores, and first-year graduate students. Except as noted, all require as a general prerequisite one course at the 200 level. Some of the courses have discussion sections.

311 Techniques and Materials: Painting Spring. 4 credits. Limited to 50 students.

T R 10:10–12:05. H. P. Kahn.

The techniques of painting in their historical and formal contexts, analytical research of materials and conservation.

313 Books, Prints, and the Graphic Image Fall. 4 credits. Limited to 50 students.

T R 10:10–12:05. H. P. Kahn.

The history and formal evolution of letters, types, illustrations, books, and publications; theories of design and message.

320 The Archaeology of Classical Greece (also Classics 320) Spring. 4 credits.

M W F 2:30. A. Ramage.

Detailed study of the monuments and crafts of Athens, from the Geometric to the Roman Period; the Acropolis and the Agora. Literature and art considered in their cultural context.

[321 Archaeology of Cyprus (also Classics 321) 4 credits. Not offered 1980–81.]

322 Arts of the Roman Empire (also Classics 350) Fall. 4 credits.

M W F 9:05. A. Ramage.

The visual arts in the service of the first world state. The course starts with the Etruscan and Republican period but concentrates on monuments of the Imperial era in Italy and the provinces until the time of Constantine.

323 Painting in the Greek and Roman World (also Classics 323) Spring. 4 credits.

M W F 9:05. A. Ramage.

Vase painting, wall painting, and mosaics from the ancient Mediterranean world will be studied in conjunction with the testimony of Greek and Roman sources. An attempt will be made to grasp the concerns and achievements of the Classical painters.

[324 Architecture in the Greek and Roman World (also Classics 324) 4 credits. A. Ramage. Not offered 1980–81.]

[325 Greek Vase Painting (also Classics 325) 4 credits. A. Ramage. Not offered 1980–81.]

[326 Art and Archaeology of Archaic Greece (also Classics 326) 4 credits. Not offered 1980–81.]

[327 Greek and Roman Coins (also Classics 327) 4 credits. Not offered 1980–81.]

[329 Greek Sculpture (also Classics 329) 4 credits. J. E. Coleman. Not offered 1980–81.]

[330 Art in Pompeii: Origins and Echoes (also Classics 330) 4 credits. Not offered 1980–81.]

[332 Architecture of the Middle Ages 4 credits. R. G. Calkins. Not offered 1980–81.]

[333 Early Medieval Art and Architecture 4 credits. R. G. Calkins. Not offered 1980–81.]

[334 Romanesque Art and Architecture 4 credits. R. G. Calkins. Not offered 1980–81.]

[335 Gothic Art and Architecture 4 credits. R. G. Calkins. Not offered 1980–81.]

[336 Late Medieval Italian Art and Architecture 4 credits. Not offered 1980–81.]

[337 The Medieval Illuminated Book 4 credits. R. G. Calkins. Not offered 1980–81.]

341 Flemish Painting Fall. 4 credits.

M W F 9:05. R. G. Calkins.

Painting in the transitional period from the late Gothic to the Renaissance in the Lowlands. The works of the Master of Flemalle, Jan van Eyck, and Jerome Bosch will be considered.

[342 Medieval and German Renaissance Art 4 credits. R. G. Calkins. Not offered 1980–81.]

[343 Italian Renaissance Art of the Fifteenth Century 4 credits. Not offered 1980–81.]

[344 Italian Renaissance Art of the Sixteenth Century 4 credits. Not offered 1980–81.]

[345 Sculpture of the Italian Renaissance 4 credits. Not offered 1980–81.]

352 Dutch Painting in the Seventeenth Century Fall. 4 credits.

M W F 12:20. C. Lazzaro.

A study of the flourishing of painting in the seventeenth-century Holland with emphasis on the major artists—Rembrandt, Hals, Vermeer—and on the traditions of still-life, genre, and landscape painting. Context and content as well as stylistic development will be considered.

[355 French Art of the Sixteenth and Seventeenth Centuries 4 credits. E. G. Dotson. Not offered 1980–81.]

[357 European Art of the Eighteenth Century 4 credits. E. G. Dotson. Not offered 1980–81.]

[359 Major Masters of the Graphic Arts 4 credits. H. P. Kahn, A. S. Roe. Not offered 1980–81.]

361 Modern Artists and Their Critics Spring. 4 credits. Limited to 30 students. Prerequisites: History of Art 261 or permission of instructor.

T R 10:10–11:25. J. V. Falkenheim.

A consideration of several major nineteenth- and twentieth-century artists and the way their work is discussed by important contemporary critics. The modern period studied through such artist-critic relationships as those of Delacroix and Baudelaire, Turner and Ruskin, Cezanne and Fry, abstract expressionism and Greenberg and Rosenberg. Lectures, discussions, extensive reading from these critics.

[362 Topics in Modern Art 4 credits. J. V. Falkenheim. Not offered 1980–81.]

[364 Modern Sculpture: From Rodin to Rickey 4 credits. R. C. Hobbs. Not offered 1980–81.]

[365 Art from 1940 to the Present: From Hoffmann to Haacke 4 credits. Prerequisite: History of Art 261. R. C. Hobbs. Not offered 1980–81.]

[374 American and European Decorative Arts of the Renaissance and Early Nineteenth Century 4 credits. A. S. Roe. Not offered 1980–81.]

[376 Painting and Sculpture in America: 1850–1950 4 credits. T. W. Leavitt. Not offered 1980–81.]

[378 American Architecture, the City, and American Thought: 1850–1950 4 credits. T. M. Brown. Not offered 1980–81.]

379 Art and Technology: 1850–1950 Spring. 4 credits.

T R 12:20–1:35. T. M. Brown.

Approached topically, an examination of the issues of two- and three-dimensional visual art and design within the context of a mass-technological world. Discussion will revolve around topics presented, as well as required weekly reading.

[381 Buddhist Art in Asia 4 credits. S. J. O'Connor. Not offered 1980–81.]

383 The Arts of Early China Fall. 4 credits.

M W 12:20; plus one disc, T 9:05, 11:15, 1:25, or 3:35. M. W. Young.

An introduction to the arts of China intended for students without previous experience of China or art history. The course will begin with the late Neolithic pottery cultures and then examine in detail the arts of the Bronze Age and the Buddhist period, ending with the beginning of painting in the ninth century. The

collection of the Herbert F. Johnson Museum of Art will be used in conjunction with the discussion sections. Term paper option for the final exam.

[384 The Arts of Japan] 4 credits. M. W. Young. Not offered 1980–81.]

385 Chinese Painting Spring. 4 credits.
M W 12:20; plus one disc, T 9:05, 11:15, 1:25, or 3:35. M. W. Young.

An introduction to the arts of China from the medieval period to the modern age. The course focuses on developments in the art of painting, especially landscapes, but related arts such as ceramics, architecture, and sculpture are discussed. Discussion sections use the collection of the Herbert F. Johnson Museum of Art. Term paper option for the final exam.

[386 Studies in Indian and Southeast Asian Art] 4 credits. S. J. O'Connor. Not offered 1980–81.]

Seminars

Courses at the 400 level are open to upperclass students, majors, and graduate students. Seminars at the 500 level are primarily for graduate students, but qualified upperclass students may be admitted. All seminars involve the writing and presentation of research papers. Enrollment is limited, and permission of the department or instructor is normally required. Students may repeat 500-level courses that cover a different topic each semester.

401 Independent Study Fall or spring. 2 credits; may be repeated for credit. Prerequisite: permission of a department faculty member.

Hours to be arranged. Staff.
Individual investigation and discussion of special topics not covered in the regular course offerings, by arrangement with a member of the department.

402 Independent Study Fall or spring. 4 credits; may be repeated for credit. Prerequisite: permission of a department faculty member.

Hours to be arranged. Staff.
Individual investigation and discussion of special topics not covered in the regular course offerings, by arrangement with a member of the department.

[405 Original Works of Art] 4 credits. Not offered 1980–81.]

[406 Introduction to Museums] 2 credits.
T. W. Leavitt. Not offered 1980–81.]

[421 History of Art Criticism] 4 credits.
J. V. Falkenheim. Not offered 1980–81.]

423 Ceramics Fall. 4 credits. Prerequisite: permission of instructor.

M 2:30–4:30. A. Ramage.
Greek and Roman pottery specimens from several Near Eastern and Mediterranean sites will be studied to provide direct experience in one of the basic prerequisites of archaeological excavation—the identification and dating of pottery types. A report, delivered in class, will concern ancient ceramic materials of particular types and periods.

[431 Greek Sculpture (also Classics 431)] 4 credits. A. Ramage. Not offered 1980–81.]

[448 Mannerism and the Early Baroque Era in Italy] 4 credits. E. G. Dotson. Not offered 1980–81.]

[449 Studies in Italian Renaissance Art] 4 credits. Not offered 1980–81.]

[452 Studies in English Art] 4 credits. A. S. Roe. Not offered 1980–81.]

[456 Literature and the Arts in Sixteenth-Century France (also French 456)] 4 credits. E. G. Dotson, E. P. Morris. Not offered 1980–81.]

[458 Classic and Romantic Art] 4 credits.
E. G. Dotson. Not offered 1980–81.]

[464 Studies in Modern Art] 4 credits.
J. V. Falkenheim. Not offered 1980–81.]

465 Problems in Modern Art and Architecture Spring. 4 credits. Limited to 15 students. Prerequisite: permission of instructor.

M 12:20–2:15. T. M. Brown.
Topic to be announced.

474 American and European Decorative Arts from the Renaissance Period to the Early Nineteenth Century Spring. 4 credits. Prerequisite: permission of instructor.

T R 12:20–1:35. A. S. Roe.
The evolution of the successive major styles of European interior design and furnishing are studied in relation to their impact upon the arts of the colonies and of the United States from the earliest period until the advent of mechanized production. The rise and dissemination of forms and design motifs will be traced back to their origins in European prototypes, especially English and Dutch. The evolution of furniture forms, as well as of silver and ceramics, will be studied systematically. In particular, the role of the major European engraved books of design for architecture and interior furnishings will be studied in relation to their influence in early America.

476 Seminar on American Art: 1840–1940 Spring. 4 credits.

M 2:30–4:30. T. W. Leavitt.
An exploration of aspects of American painting represented in the collection of the Herbert F. Johnson Museum of Art. Works will be examined in many different contexts.

[482 Ceramic Art of Asia] 4 credits. S. J. O'Connor. Not offered 1980–81.]

483 Chinese Art of the T'ang Dynasty Spring. 4 credits. Prerequisites: History of Art 383, or a course in Chinese history or Chinese literature, or permission of instructor.

M 2:30–4:30. M. W. Young.
A detailed examination of the arts in medieval China, with particular attention to arts of the T'ang court, the international style of the seventh and eighth centuries, and the Buddhist tradition in painting and sculpture. Some meetings will be held in the Herbert F. Johnson Museum of Art. Lectures, readings, discussion. Final paper expected.

[486 Studies in Chinese Painting] 4 credits.
M. W. Young. Not offered 1980–81.]

[488 Traditional Arts in Southeast Asia] 4 credits.
S. J. O'Connor. Not offered 1980–81.]

493 Honors Work Fall or spring. 4 credits. Intended for senior art history majors who have been admitted to the honors program. S-U grades only.

Hours to be arranged. Staff.
Basic methods of art historical research will be discussed and individual readings assigned, leading to the selection of an appropriate thesis topic.

494 Honors Work Fall or spring. 4 credits. Prerequisite: History of Art 493.

Hours to be arranged. Staff.
The student, under faculty direction, will prepare a senior thesis.

531 Problems in Medieval Art and Architecture Fall. 4 credits.

W 2:30–4:30. R. G. Calkins.
Topic for 1980: Romanesque portals.

[540 Seminar in Renaissance Art] 4 credits. Not offered 1980–81.]

550 Seminar in Baroque Art Spring. 4 credits.
T 2:30–4:30. C. Lazzaro.

The artist's self-image in the seventeenth century. The course will examine artist's images of themselves in both portraiture and allegorical statements about the nature of the artist's activity, genius, and social status. Among those to be discussed are Poussin, Rubens, Velazquez, Castiglione, and Artemisia Gentileschi.

[564 Problems in Modern Art] 4 credits.
R. C. Hobbs. Not offered 1980–81.]

[580 Problems in Asian Art] 4 credits.
S. J. O'Connor. Not offered 1980–81.]

591–592 Supervised Reading 591, fall; 592, spring. 4 credits; may be repeated for credit. Limited to graduate students.

[594 Methodology Seminar I] 4 credits. Not offered 1980–81.]

595 Methodology Seminar II Fall. 4 credits. Required of all graduate students. Prerequisite: permission of instructor. S-U grades only.
T 2:30–4:30. R. C. Hobbs.

[596 Problems of Art Criticism] 4 credits.
S. J. O'Connor. Not offered 1980–81.]

Related Courses in Other Departments

Architecture, Man, and Nature in the Early Modern Period (Society for the Humanities 423)

Leonardo da Vinci as a Philosopher of Nature (Society for the Humanities 424)

The Phenomenon of Iconoclasm (Society for the Humanities 425–426)

Primitivism of Nineteenth and Early Twentieth-Century Art and Thought (Society for the Humanities 428)

Meanings of the Garden in Europe after the Renaissance (Society for the Humanities 431–432)

Scandinavia and Europe 400–1100 (English 601, Archaeology 601, Medieval Studies 609)

Courses given in Archaeology, Classics, and Near Eastern Studies often complement History of Art courses.

Indonesian

See Modern Languages, Literatures, and Linguistics, p. 92.

Italian

See Modern Languages, Literatures, and Linguistics, p. 92, and Department of Romance Studies, p. 101.

Japanese

See Department of Asian Studies, p. 55, and Modern Languages, Literatures, and Linguistics, p. 92.

Javanese

See Modern Languages, Literatures, and Linguistics, p. 92.

Latin

See Department of Classics, p. 62.

Mathematics

Basic Sequences

103 Mathematics for Architects (also Architecture 221) Fall. 3 credits.

Lec, T 10:10; 2 recs to be arranged.
Rudiments of calculus and introduction to vectors and matrices.

105 Finite Mathematics for Biologists (also Engineering T&AM 105) Fall. 3 credits

Prerequisite: three years of high school mathematics including trigonometry.

Prelims: 6:30 p.m. Sept. 25, Oct. 23, Nov. 20.
Sets, functions, and graphing (including use of log and semi-log paper). Probability (with some applications to genetics). Vectors and matrices. Examples from biology are used.

106 Calculus for Biologists (also Engineering T&AM 106) Spring. 3 credits. Prerequisite:

Mathematics 105 or three years of high school mathematics, including trigonometry and analytic geometry.

Prelims: 6:30 p.m. Feb. 26, Mar. 26, Apr. 30.
Introduction to differential and integral calculus, partial derivatives, elementary differential equations. Examples from biology are used.

107 Finite Mathematics Fall. 3 credits.

Prerequisite: three years of high school mathematics, including at least two years of high school algebra. This course cannot be used toward fulfillment of the mathematics requirement for biology majors.

Lecs, T R 12:20 plus 2 hours to be arranged.
Prelims: 6:30 p.m. Sept. 25, Oct. 23, Nov. 20.

Functions, enumeration, permutations and combinations, probability, vectors and matrices, Markov chains.

108 Introduction to Calculus Spring. 3 credits.

Intended primarily for students in the more descriptive areas of the social sciences. Prerequisite: three years of high school mathematics including trigonometry and analytic geometry of the line and circle. Recommended: Mathematics 107. This course does not normally provide adequate preparation for any higher course in mathematics; nor can it be used toward fulfillment of the mathematics requirement for biology majors.

Lecs, T R 12:20 plus 2 hours to be arranged.

Prelims: 6:30 p.m. Feb. 26, Mar. 26, Apr. 30.
Behavior of functions, introduction to differential and integral calculus, elementary differential equations.

109 Precalculus Mathematics Fall. 3 transcript credits only; cannot be used toward graduation.

M W F 11:15.
This course is designed to prepare students for Mathematics 111 or 108. Algebra, trigonometry, logarithms, and exponentials are reviewed.

111 Calculus Fall or spring. 4 credits. Intended for students who have a good background in high school mathematics but who have not studied calculus (see Mathematics 113). Prerequisite: Mathematics 109 or three years of high school mathematics including trigonometry.

Fall: lecs, T R F 11:15, plus 2 hours to be arranged.

Spring: lecs, T R F 11:15 plus 2 hours to be arranged. Prelims: fall, 6:30 p.m. Sept. 23, Oct. 21, Dec. 2; spring, 6:30 p.m. Feb. 24, Mar. 24, Apr. 28.

Plane analytic geometry, differentiation and integration of algebraic and trigonometric functions, applications of differentiation, logarithmic and exponential functions.

112 Calculus Fall or spring. 4 credits.

Prerequisites: Mathematics 106 or 111 or 113 with a grade of C or better, or exceptional performance in Mathematics 108. Those who do extremely well in Mathematics 111 or 13 should take 122 instead of 112, unless they plan to continue with Mathematics 214–217.

Fall: lecs, T R F 11:15, plus 2 hours to be arranged.

Spring: lecs, T R F 10:10, 11:15, or 12:20, plus 2 hours to be arranged. Prelims: fall, 6:30 p.m.

Sept. 23, Oct. 21, Dec. 2; spring, 6:30 p.m.

Feb. 24, Mar. 24, Apr. 28.

Applications of integration, techniques of integration, partial derivatives and extremal problems, multiple integrals.

113 Calculus Fall. 4 credits. Prerequisite:

Mathematics 109 or three years of high school mathematics, including trigonometry. This course covers the same material as Mathematics 111, but it is intended for students who have had enough calculus to be able to differentiate polynomial functions.

Lecs, T R F 11:15 or 12:20, plus 2 hours to be arranged. Prelims: 6:30 p.m. Sept. 23, Oct. 21, Dec. 2.

122 Calculus Fall or spring. 4 credits. Prerequisite:

performance at a high level in Mathematics 111 or 113 or permission of the department. Students planning to continue with Mathematics 214–217 are advised to take 112 instead of this course.

Fall: lecs, M W F 10:10, 11:15, or 12:20. Spring: lecs, M W F 9:05 or 10:10.

Differentiation and integration of elementary transcendental functions, the techniques of integration, applications, polar coordinates, infinite series, and complex numbers. The approach is more theoretical than in Mathematics 112.

191–193 Calculus for Engineers Fall. 4 credits.

Prerequisite: three years of high school mathematics, including trigonometry. Mathematics 193 is a course parallel to 191 for students who have had a substantial amount of calculus in high school, but who did not place out of 191. Although the same topics will be covered in 193 as in 191, some may be treated in greater depth in 193.

191: lecs, M W F 11:15, plus 2 hours to be arranged. 193: lecs, M W F 9:05 or 11:15, plus 2 hours to be arranged. Prelims: 6:30 p.m. Sept. 23, Oct. 21, Dec. 2.

Plane analytic geometry, differential and integral calculus, and applications.

192 Calculus for Engineers Fall or spring.

4 credits. Prerequisite: Mathematics 191 or 193.

Fall: lecs, M W F 9:05 or 11:15 plus 2 hours to be arranged. Spring: lecs, M W F 9:05 or 11:15, plus 2 hours to be arranged. Prelims: 7:30 p.m. Sept. 23, Oct. 21, Dec. 2; spring, 6:30 p.m. Feb. 24, Mar. 24, Apr. 28.

Transcendental functions, technique of integration and multiple integrals, vector calculus, analytic geometry in space, partial differentiation, applications.

214–215–216–217 Fall or spring. 1 credit each.

Prerequisite: Mathematics 112 or 122. These courses are taught as a unified third-semester calculus package, but students may register for any subset of these courses in accordance with their interests and needs *subject to the following credit regulations*: no credit can be received for Mathematics 216 if 192 or 194 is taken, nor can credit be received for Mathematics 214 or 216 if 221 is taken, nor can credit be received for Mathematics 217 if either 122 or 293 is taken. Students in doubt about their choices should consult their advisers and the course instructors. The courses are offered in sequence (though not necessarily in numerical order) through the semester, and each lasts three to four weeks. The expected order is Mathematics 217, 214, 215, 216, but some

variation is possible. (Note: 217 is prerequisite to 214 and 215.)

Fall: lecs, M W F 11:15, plus 2 hours to be arranged. Spring: lecs, T R 11:15 and F 8, plus 2 hours to be arranged. *All students are urged to attend the first lecture of the semester to learn the order in which the course will be taught, the dates for each course, the examination dates, and the structure of the whole.* Prelims will be given some evenings at 6:30 p.m.

214 Introduction to Differential Equations

Prerequisite: Mathematics 217 or equivalent material from Mathematics 122 or 293.

Simple first- and second-order equations with applications. See also the entire 214–215–216–217 description above.

215 Differential Equations Prerequisites:

Mathematics 214 and 217 or equivalent material from Mathematics 122 or 293.

Introduction to numerical methods of solution, systems of differential equations, elementary partial differential equations, and boundary value problems. Applications. See also the entire 214–215–216–217 description above.

216 Vector Analysis

Vectors, matrices, vector valued functions. Line integrals. See also the entire 214–215–216–217 description above.

217 Infinite Series and Complex Numbers

See the entire 214–215–216–217 description above.

221 Linear Algebra and Calculus Fall or spring. 4 credits. Prerequisite: Mathematics 122 with a grade of B or better, or permission of instructor.

Fall: M W F 9:05, 10:10, or 11:15. Spring: M W F 10:10 or 11:15.

Linear algebra and differential equations. Topics include vector algebra, linear transformations, matrices, linear differential equations, as well as an introduction to proving theorems.

222 Calculus Fall or spring. 4 credits. Prerequisite: Mathematics 221.

Fall, M W F 11:15 or 12:20; spring, M W F 9:05 or 10:10 or 11:15.

Vector differential calculus, calculus of functions of several variables, multiple integrals.

293 Engineering Mathematics Fall or spring.

3 credits. Prerequisites: Mathematics 192 or 194 plus a knowledge of computer programming equivalent to that taught in Engineering DBS 105. In exceptional circumstances, Mathematics 192 and 293 may be taken concurrently.

Fall: lecs, M W 10:10, 11:15, or 12:20, plus an hour to be arranged. Spring: lecs, M W 10:10 or 12:20, plus an hour to be arranged. Prelims: fall, 6:30 p.m. Sept. 30, Oct. 30, Dec. 2; spring, 6:30 p.m. Mar. 3, Apr. 7, May 5.

Infinite series, complex numbers, first and second order ordinary differential equations with applications in the physical and engineering sciences.

294 Engineering Mathematics Fall or spring.

4 credits. Prerequisite: Mathematics 293.

Fall: lecs, M W F 10:10 or 12:20, plus an hour to be arranged. Spring: lecs, M W F 10:10, 11:15, or 12:20, plus an hour to be arranged. Prelims: fall, 6:30 p.m. Sept. 30, Oct. 30, Dec. 2; spring, 6:30 p.m. Mar. 5, Apr. 7, May 5.

Vector spaces and linear algebra, matrices, eigenvalue problems and applications to systems of linear differential equations. Vector calculus. Boundary value problems and introduction to Fourier series.

General Courses

Students who want a general introductory mathematics course are advised to take Mathematics 107–108, described above.

100 History of Mathematics Spring, 3 credits. Intended for freshmen and sophomores. Limited to 50 students. Prerequisite: high school geometry. If this course is taken to satisfy part of the distribution requirement, it is to be treated in the same way as Mathematics 403 (consult the College of Arts and Sciences section on the *Announcement of Academic Information*).

In 1981 the topic will be the history of geometry from ancient times. Prehistoric geometry from Vedic, Mesopotamian, and Egyptian sources. The Greek tradition of Thales, Pythagoras, and Plato. Detailed study of the first six books of Euclid. Modern developments, including non-Euclidean geometry.

401 Honors Seminar Fall or spring, 4 credits. Prerequisite: permission of instructor. Students will discuss selected topics under the guidance of one or more members of the staff.

[403 History of Mathematics Spring, 4 credits. Not offered 1980–81.]

408 Development of Modern Mathematical Thought Spring, 4 credits. Limited to students who are completing a major in mathematics or in a related subject with a strong concentration in mathematics. Prerequisites: Mathematics 411 or 421, and 431 or 331.

Selected topics tracing the development of mathematics from antiquity to the present (including harmonic analysis and music, calculus, foundations, and modern physics), chosen to shed light on general questions such as: What is mathematics? How does it develop? How does it relate to other areas of knowledge? Students will be expected to write expository papers.

690 Supervised Reading and Research Variable credit (up to 6 credits each term).

Applied Mathematics and Differential Equations

[305 Mathematics in the Real World Not offered 1980–81. See Engineering OR&IE 431.]

421 Applicable Mathematics Fall or spring, 4 credits. Prerequisites: high level of performance in Mathematics 294, or 217 and 222, or 214–217 and 331. Graduate students who need mathematics extensively in their work and who have had a solid advanced calculus course and complex variables course as undergraduates should take Mathematics 515–516. With less preparation, they should take Mathematics 421–422–423. Students who have not had infinite series, some linear algebra, and some ordinary differential equations should take Mathematics 214–217, 331, and then Mathematics 421–422–423.

T W R F 12:20. Evening Prelims may be scheduled. Theorems of Stokes, Green, Gauss, etc. Sequences and infinite series. Fourier series and orthogonal functions. Ordinary differential equations. Solution of partial differential equations by separation of variables.

422 Applicable Mathematics Spring, 4 credits. Prerequisite: Mathematics 421.

T W R F 12:20. Evening prelims may be scheduled. Complex variables. Generalized functions. Fourier transforms, Laplace transforms. Partial differential equations.

423 Applicable Mathematics Fall, 4 credits. Prerequisite: Mathematics 421; however, students who have not taken 422 should talk to the instructor before taking this course.

T W R F 12:20. Normed vector spaces. Elementary Hilbert space theory. Projections. Fredholm's alternative. Eigenfunction expansions. Applications to elliptic partial differential equations, and to integral equations.

427 Introduction to Ordinary Differential Equations Fall, 4 credits. Prerequisite: Mathematics 222 or 294, or permission of instructor. Offered alternate years.

T R 10:10–11:25.

Covers the basic existence, uniqueness, and stability theory together with methods of solution and methods of approximation. Topics include singular points, series solutions, Sturm-Liouville theory, transform methods, approximation methods, and application to physical problems.

428 Introduction to Partial Differential Equations Spring, 4 credits. Prerequisite: Mathematics 222 or 294 or permission of instructor.

T R 10:10–11:25.

Topics selected from: first-order quasilinear equations, classification of second-order equations, characteristics. Laplace, heat, and wave equations with emphasis on maximum principles, existence, uniqueness, stability. Fourier series methods, approximation methods.

Analysis

311 Elementary Analysis Fall, 4 credits.

Prerequisites: Mathematics 214–217. Mathematics 311 is similar to that of 411 below, but is taught at a more elementary level and at a slower pace. A student may not receive credit for both Mathematics 311 and 411 or 413. May be offered alternate years; may not be offered 1981–82.

M W F 9:05.

A careful study of topology of the real line. Continuous functions of one real variable. Differentiation and integration of such functions.

411–412 Introduction to Analysis 411, fall; 412, spring, 4 credits each term. Prerequisite: Mathematics 222. Students who need measure theory and Lebesgue integration for advanced probability courses should take Mathematics 413–414, or arrange to audit the first few weeks of Mathematics 521.

T R 8:40–9:55.

An introduction to the theory of functions of real variables, stressing rigorous logical development of the subject rather than technique of applications. Topics include metric spaces, the real number system, continuous and differentiable functions, integration, convergence and approximation theorems, Fourier series, calculus in several variables, and differential forms.

413–414 Introduction to Analysis 413, fall; 414, spring, 4 credits each. Prerequisite: Mathematics 222.

T R 8:40–9:55.

Honors version of Mathematics 411–412. Parts of measure theory and Lebesgue integration are also covered.

418 Introduction to the Theory of Functions of One Complex Variable Spring, 4 credits. Intended mainly for undergraduates and for graduate students outside mathematics. Prerequisite: Mathematics 222 or 294 or 214–217. May be offered only in alternate years. May not be offered 1980–81.

A rigorous introduction to complex variable theory. Complex numbers. Differential and integral calculus for functions of a complex variable including Cauchy's theorem and the calculus of residues. Elements of conformal mapping.

Algebra

331 Linear Algebra Fall, 4 credits. Prerequisite: one year of calculus. A student may not receive credit for both Mathematics 331 and any one of Mathematics 221, 293.

M W F 10:10.

Vectors, matrices, and linear transformations, affine and Euclidean spaces, transformation of matrices, and eigenvalues.

332 Algebra and Number Theory Spring, 4 credits. Prerequisite: one year of calculus. Mathematics 332 does not satisfy prerequisites for courses numbered 500 and above.

M W F 10:10.

Various topics from modern algebra and number theory, usually including rings, fields, and finite groups. Motivation and examples are derived mostly from geometry, arithmetic, and congruence problems on the integers.

431–433 Introduction to Algebra Fall, 4 credits.

Prerequisite: Mathematics 221 or 331. Mathematics 433 is an honors section that will be more theoretical and rigorous than Mathematics 431 and will include additional material such as multilinear and exterior algebra.

M W F 10:10.

An introduction to linear algebra, including the study of vector spaces, linear transformation, matrices, and systems of linear equations; quadratic forms and inner product spaces; canonical forms for various classes of matrices and linear transformations; determinants.

432–434 Introduction to Algebra Spring, 4 credits. Prerequisite: Mathematics 431 or 433. Mathematics 434 is an honors section that will be more theoretical and rigorous than Mathematics 432.

M W F 10:10.

An introduction to various topics in abstract algebra, including groups, rings, fields, factorization of polynomials and integers, congruences, and the structure of finitely generated modules over Euclidean domains with application to canonical forms of matrices.

Geometry and Topology

451 Classical Geometries Fall, 4 credits. Prerequisite: 221 or 331 or permission of instructor.

M W F 11:15.

Foundations of geometry. Various geometric topics, including Euclidean, non-Euclidean, and projective geometry and rigidity theory.

[452 Classical Geometries May be offered only alternate years. Not offered 1980–81.]

453–454 Introduction to Topology and Geometry 453, fall; 454, spring, 4 credits each term. Prerequisites: Mathematics 411 and 221, or permission of instructor.

M W F 12:20.

Mathematics 453: basic point set topology, connectedness, compactness, metric spaces, fundamental group. Application of these concepts to surfaces such as the torus, the Klein bottle, the Moebius band. 454: intrinsic definition of tangent vectors and differential forms in \mathbb{R}^3 . Metric properties of surfaces in \mathbb{R}^3 . Smooth manifolds and introduction to Riemannian geometry.

Probability and Statistics

370 Elementary Statistics Spring, 4 credits. Prerequisites: Mathematics 112, 122 or 192; or Mathematics 106 or 108 with permission of instructor. A terminal course for students who will take no further work in this area. Mathematics 370 is not preparation for 472.

M W F 9:05. Prelims: 6:30 p.m. Feb. 26, Mar. 26, Apr. 30.

Topics in probability that are essential to an understanding of statistics; introduction to the principles underlying modern statistical inference, and the rationale underlying choice of statistical methods in various situations.

471 Basic Probability Fall, 4 credits. Prerequisite: Mathematics 221. May be used as a terminal course in basic probability. Intended primarily for those who will continue with Mathematics 472.

M W F 11:15. Prelims: 6:30 p.m. Sept. 25, Oct. 23, Nov. 20.

Topics covered include combinatorics, important probability laws, expectations, moments, moment-generating functions, limit theorems. Emphasis is on diverse applications and on development of use in statistical applications. See also the description of Mathematics 571.

472 Statistics Spring. 4 credits. Prerequisite: Mathematics 471 and knowledge of linear algebra such as taught in Mathematics 221.

M W F 11:15. Prelims: 6:30 p.m. Feb. 26, Mar. 26, Apr. 30.

Classical and recently developed statistical procedures are discussed in a framework that emphasizes the basic principles of statistical inference and the rationale underlying the choice of these procedures in various settings. These settings include problems of estimation, hypothesis testing, large sample theory.

473 Further Topics in Statistics Fall. 4 credits. Prerequisite: Mathematics 472 or 574. (For corresponding subject matter taught in more detail, see description of Mathematics 573 and 675.)

T R 8:40–9:55.

More detailed discussion of some of the topics not covered at length in Mathematics 472. Design and analysis of experiments. Multivariate analysis. Nonparametric inference; robustness. Sequential analysis.

Mathematical Logic

381 Elementary Mathematical Logic Spring. 4 credits. Prerequisite: Mathematics 122.

M W F 11:15.

Propositional and predicate logic. Completeness and incompleteness theorems. Set theory.

Graduate Courses

Students interested in taking graduate courses in mathematics should consult the department for further course details, times, and possible changes in courses as described below.

511–512 Real and Complex Analysis First term: measure and integration, functional analysis. Second term: complex analysis, Fourier analysis, and distribution theory.

515–516 Mathematical Methods in Physics 515, fall; 516, spring. 4 credits each. Intended for graduate students in physics or related fields who have had a strong advanced calculus course and at least two years of general physics. A knowledge of the elements of finite dimensional vector space theory, complex variables, separation of variables in partial differential equations, and Fourier series will be assumed. The course overlaps with parts of Mathematics 421–422–423. Undergraduates will be admitted only with permission of instructor. Mathematics 515 is a prerequisite for 516.

T W R F 12:20.

Topics designed to give a working knowledge of the principal mathematical methods used in advanced physics. A brief discussion of some basic notions: metric space, vector space, linearity, continuity, integration. Generalized functions (Schwartz distributions). Fourier series and Fourier integrals. Saddle point method. Linear operators. Differential operators and integral operators, the equations and eigenvalue problems connected with them and the special functions arising from them. Elements of group theory. The rotation group and its representations.

[517–518 Ordinary Differential Equations Not offered 1980–81. Basic theory of ordinary differential equations.]

519–520 Partial Differential Equations

[521 Elementary Functional Analysis Not offered 1980–81.

Elementary set theory and topology, Banach and Hilbert spaces, measure and integration. Graduate students in mathematics should take Mathematics 613 for functional analysis.]

[522 Applied Functional Analysis Not offered 1980–81.

Spectral theorem for bounded operators, spectral theory for unbounded operators in Hilbert space compact operators, distributions. Applications.]

[527 Analysis of Numerical Methods for Partial Differential Equations Not offered 1980–81.

Tools for analyzing practical numerical methods, especially with regard to asymptotic convergence. Finite difference and finite element method.]

531–532 Algebra

531: finite groups, field extensions, Galois theory, rings and algebras, tensor and exterior algebra. 532: Wedderburn structure theorem, Brauer group, group cohomology, Ext, Dedekind domains, primary decomposition, Hilbert basis theorem, local rings. Additional topics selected by instructor.

[537 Elementary Number Theory Prerequisites: Mathematics 432 and 412. Not offered 1980–81.

Introduction to number theory suitable for first-year graduate students and advanced undergraduates. Choice of topics discussed depends on the instructor. In previous years the text has been *A Course in Arithmetic* by J. P. Serre; the topics covered have included quadratic forms, quadratic reciprocity, and modular forms.

549–550 Lie Groups and Differential Geometry.

551 Introductory Algebraic Topology

Fundamental group and covering spaces. Homology and cohomology theories for complexes and spaces.

552 Differentiable Manifolds

Manifolds and differentiable structures. Tangent, cotangent, and tensor bundles. Exterior calculus. Riemannian structures. Local and global theory of differential equations. Integration on manifolds.

[561 Geometric Topology Not offered 1980–81.

Topics from general topology. Introduction to geometric properties of manifolds.]

571–572 Probability Theory Prerequisites: a knowledge of Lebesgue integration theory, at least on the real line. Students can learn this material by taking parts of Mathematics 413–414 or 521.

Properties and examples of probability spaces. Sample space, random variables, and distribution functions. Expectation and moments. Independence, Borel-Cantelli lemma, zero-one law. Convergence of random variables, probability measures, and characteristic functions. Law of large numbers. Selected limit theorems for sums of independent random variables. Markov chains, recurrent events. Ergodic and renewal theorems. Martingale theory. Brownian motion and processes with independent increments.

571–574 Probability and Statistics This course is a prerequisite to all advanced courses in statistics. First term: same as Mathematics 571. Second term (574): topics include an introduction to the theory of point estimation, consistency, efficiency, sufficiency, and the method of maximum likelihood; the classical tests of hypotheses and their power; the theory of confidence intervals; the basic concepts of statistical decision theory; the fundamentals of sequential analysis. Intended to furnish a rigorous introduction to mathematical statistics.

[573 Experimental Design, Multivariate Analysis Not offered 1980–81.

Rationale for selection of experimental designs and algorithms for constructing optimum designs. Optimum properties and distribution theory for classical analysis of variance procedures and their simplest multivariate analogues.]

[575 Sequential Analysis, Multiple Decision Problems Not offered 1980–81.]

577 Nonparametric Statistics Prerequisite: a course in mathematical statistics such as Mathematics 574.

A study of nonparametric techniques, especially order statistics, rank order statistics, scores, local optimality properties, and perhaps some asymptotic theory.

581 Logic

Basic topics in mathematical logic including propositional and predicate calculus; formal number theory and recursive functions; completeness and incompleteness theorems.

611–612 Seminar in Analysis

613 Functional Analysis

Topological vector spaces. Banach and Hilbert spaces, Banach algebras. Additional topics to be selected by instructor.

615 Fourier Analysis

[622 Riemann Surfaces Not offered 1980–81.]

623 Several Complex Variables

627 Seminar in Partial Differential Equations

631–632 Seminar in Algebra

[635 Topics in Algebra I Not offered 1980–81.

Selection of advanced topics from algebra, algebraic number theory, and algebraic geometry. Course content varies.]

637 Algebraic Number Theory

[639 Topics in Algebra II Not offered 1980–81.

Selection of advanced topics from algebra, algebraic number theory, and algebraic geometry. Course content varies.]

[640 Homological Algebra Not offered 1980–81.]

651–652 Seminar in Topology

653–654 Algebraic Topology

Duality theory in manifolds, applications, cohomology operations, spectral sequences, homotopy theory, general cohomology theories, categories and functors.

657–658 Advanced Topology

Selection of advanced topics from modern algebraic, differential, and geometric topology. Course content varies.

[661–662 Seminar in Geometry Not offered 1980–81.]

667 Algebraic Geometry

670 Topics in Statistics

A course taught occasionally to cover special topics in theoretical statistics not treated in other listed courses. Typical of the subjects that will be treated are time series analysis, and classification and cluster analysis.

671 Seminar in Probability and Statistics

[674 Multivariate Analysis Not offered 1980–81.]

[675–676 Statistical Decision Theory Not offered 1980–81.]

677–678 Stochastic Processes

681–682 Seminar in Logic

683 Model Theory

684 Recursion Theory

Theory of effectively computable functions. Classification of recursively enumerable sets. Degrees of recursive unsolvability. Applications to logic. Hierarchies. Recursive functions of ordinals and higher type objects. Generalized recursion theory.

685 Metamathematics

Topics in metamathematics. Course content varies.

[687 Set Theory Not offered 1980–81.

Models of set theory. Theorems of Gödel and Cohen, recent independence results.]

690 Supervised Reading and Research

Modern Languages, Literatures, and Linguistics

Courses in modern languages, literatures, and linguistics are offered by various departments of the college.

	<i>Department</i>
Akkadian, Arabic, Aramaic	Near Eastern Studies
Chinese literature	Asian Studies
French literature	Romance Studies
Germanic literature	German Literature
Greek	Classics
Hebrew	Near Eastern Studies
Italian literature	Romance Studies
Japanese literature	Asian Studies
Latin	Classics
Russian literature	Russian Literature
Spanish literature	Romance Studies
Swahili	Africana Studies and Research Center

Language, literature, and linguistics courses that are not offered by the departments listed above are offered by the Department of Modern Languages and Linguistics.

Arabic

See listings under Near Eastern Studies.

Burmese

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Burmese 102: 101 or equivalent.

Hours to be arranged. R. B. Jones.
A semi-intensive course for beginners or for those who have been placed in the course by examination. The purpose of the course is to give a thorough grounding in all the language skills: listening, speaking, reading, and writing.

201–202 Burmese Reading 201, fall; 202, spring. 3 credits each term. Prerequisites: for Burmese 201: qualification in Burmese; for 202, Burmese 201. Hours to be arranged. R. B. Jones.

203–204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisites: for Burmese 203, qualification in Burmese; for 204, Burmese 203. Hours to be arranged. R. B. Jones.

301–302 Advanced Burmese Reading 301, fall; 302, spring. 4 credits each term. Prerequisites: for Burmese 301, Burmese 202 or permission of instructor; for 302, Burmese 301 or permission of instructor.

Hours to be arranged. R. B. Jones.
Selected Burmese readings in various fields.

Cambodian

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for 102: 101 or equivalent.

Hours to be arranged. F. E. Huffman.

201–202 Cambodian Reading 201, fall; 202, spring. 3 credits each term. Prerequisites: for Cambodian 201, qualification in Cambodian; for 202, Cambodian 201.

Hours to be arranged. F. E. Huffman.

203–204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisites: for Cambodian 203, qualification in Cambodian; for 204, Cambodian 203.

Hours to be arranged. F. E. Huffman.

301–302 Advanced Cambodian 301, fall; 302, spring. 4 credits each term. Prerequisites: for Cambodian 301, Cambodian 201–202 or the equivalent; for 302, Cambodian 301.

Hours to be arranged. F. E. Huffman.

401–402 Directed Individual Study 401, fall; 402, spring. For advanced students. 4 credits each term. Prerequisite: permission of instructor.

Hours to be arranged. F. E. Huffman.

404 Structure of Cambodian Spring only. 4 credits. Prerequisite: Linguistics 101–102 or equivalent.

Hours to be arranged. F. E. Huffman.

Cebuano (Bisayan)

[101–102 Basic Course 101, fall; 102, spring. Offered according to demand. 6 credits each term. Prerequisite for Cebuano 102: 101 or equivalent. A semi-intensive course for beginners. Not offered 1980–81; next offered 1981–82.]

Chinese**Languages and Linguistics**

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Chinese 102: 101 or equivalent.

Lecs, M W F 9:05; drill, M–F 8 or 2:30. C. Ross, P. Wang.
A semi-intensive course for beginners or for those who have been placed in the course by examination. The course gives a thorough grounding in all the language skills: listening, speaking, reading, and writing.

111–112 Cantonese Basic Course 111, fall; 112, spring. 6 credits each term. Prerequisite: permission of instructor.

Lecs, T R 11:15; drill, M–F 10:10. J. McCoy, S. Fessler.
Conversation in standard Cantonese and readings in modern expository Chinese with Cantonese pronunciation.

201–202 Intermediate Chinese I 201, fall; 202, spring. 4 credits each term. Prerequisite: qualification in Chinese.

M–F 9:05 or 11:15. P. Ni.

203–204 Chinese Conversation 203, fall; 204, spring. 1 credit each term; may be repeated for credit. Prerequisite: Chinese 101–102. S-U grades only.

Two class hours: M W 1:25. Staff.

211–212 Intermediate Cantonese I 211, fall; 212, spring. 4 credits each term. Prerequisite: Cantonese 112 or permission of instructor.

Hours to be arranged. S. Fessler.

213–214 Introduction to Classical Chinese 213, fall; 214, spring. 3 credits each term. Prerequisite: qualification in Chinese or permission of instructor. This course may be taken concurrently with Chinese 101–102, 201–202, or 301–302.

213: M W 11:15, plus 1 hour to be arranged. 214: hours to be arranged.

301–302 Intermediate Chinese II 301, fall; 302, spring. 4 credits each term. Prerequisite for Chinese 301: 202 or equivalent. Prerequisite for Chinese 302: 301.

M W F 11:15. P. Wang.
Readings and drill in modern expository Chinese.

303–304 Chinese Conversation — Intermediate 303, fall; 304, spring. 1 credit each term. S-U grades only. Prerequisites: Chinese 201–202. May be repeated for credit.

T R 1:25. Staff.
Guided conversation and oral composition and translation. Corrective pronunciation drill.

311–312 Intermediate Cantonese II 311, fall; 312, spring. 4 credits each term. Prerequisite: Cantonese 212 or permission of instructor.

Hours to be arranged. S. Fessler.

315–316 Chinese Composition 315, fall; 316, spring. 4 credits each term. Prerequisite: Chinese 202 or 212.

M W F 10:00. P. Ni.
Special emphasis on developing the style and vocabulary of modern written Chinese through practice and example.

401 History of the Chinese Language Fall or spring, according to demand. 4 credits. Prerequisite: permission of instructor.

Hours to be arranged. J. McCoy, C. Ross.
Survey of phonological and syntactic developments in Chinese.

[403 Linguistic Structure of Chinese: Phonology and Morphology Fall or spring according to demand. 4 credits. Prerequisite: permission of instructor. Not offered 1980–81.

C. Ross.
Introductory course in the structure of modern Mandarin Chinese.]

[404 Linguistic Structure of Chinese: Syntax Fall or spring, according to demand. 4 credits. Prerequisite: permission of instructor. Not offered 1980–81.

C. Ross.
Syntax of modern Mandarin Chinese.]

[405 Chinese Dialects Fall, according to demand. 4 credits. Prerequisite: permission of instructor. Not offered 1980–81.

J. McCoy.
Introductory survey of modern dialects and their distinguishing characteristics.]

411–412 Readings in Modern Chinese Literature 411, fall; 412, spring. 4 credits each term. Prerequisite: Chinese 302.

M W F 1:25. P. Ni.

[607 Chinese Dialect Seminar Fall or spring on student demand. 4 credits. Prerequisite: Chinese 405 and permission of instructor. Not offered 1980–81.

J. McCoy.
Analysis and/or field techniques in a selected dialect area.]

FALCON

161–162 Intensive Mandarin Course 161, fall (parallels first 16 credits of instruction in regular program); 162, spring (parallels second 16 credits of instruction in regular program). Prerequisite: permission of instructor.

J. McCoy and staff.

Literature in Chinese

313 Chinese Philosophical Texts Fall. 4 credits. Prerequisite: Chinese 214. T. L. Mei.

314 Classical Narrative Texts Spring. 4 credits. Prerequisite: Chinese 214. E. M. Gunn.

420 Tang and Sung Poetry Fall. 4 credits. Prerequisite: permission of instructor. T. L. Mei.

421-422 Directed Study 421, fall; 422, spring. 2-4 credits each term. Prerequisite: permission of instructor. Staff.

424 Readings in Literary Criticism Spring. 4 credits. Prerequisite: permission of instructor.

430 Readings in Folk Literature Fall or spring on student demand. 4 credits. Prerequisite: permission of instructor. J. McCoy.

For complete descriptions of courses numbered 600 or above consult the appropriate instructor.

603 Seminar in Chinese Poetry and Poetics Fall. 4 credits. Prerequisite: permission of instructor. T. L. Mei.

605 Seminar in Chinese Fiction Fall. 4 credits. Prerequisite: permission of instructor. E. M. Gunn.

609 Seminar in Chinese Folk Literature Fall or spring, according to demand. 4 credits. Prerequisite: permission of instructor. J. McCoy.

621-622 Advanced Directed Reading 621, fall; 622, spring. Credit to be arranged. Prerequisite: permission of instructor. E. M. Gunn, J. McCoy, T. L. Mei.

Dutch

131-132 Reading Course 131, fall; 132, spring. 3 credits each term. Prerequisite: permission of instructor. Hours to be arranged. F. C. van Coetsem.

Seminar in Dutch Linguistics (German 740)

English

102 English as a Second Language Fall. 6 credits. Prerequisite: placement by the instructor. M-F 9:05. M. Martin. Intermediate spoken and written English with emphasis on speaking, understanding, and reading.

103 English as a Second Language Spring. 3 credits. Prerequisite: English 102 or placement by the instructor. M W F 2:30. M. Martin.

Designed for those who have completed English 102 and who require or desire further practice. Emphasis is on developing control of written as well as spoken language.

211-212 English as a Second Language 211, fall; 212, spring. 3 credits each term. Prerequisite: placement by the instructor.

M W F 10:10, 11:15, 2:30; T R 2:30-4. M. Martin. Advanced reading and writing with emphasis on improving vocabulary and control of college-level written English.

213 English for Non-Native Speakers Spring. 3 credits. Prerequisite: placement by the instructor. T R 10:10; plus a weekly interview. M. Martin.

Designed for those whose writing fluency is sufficient for them to carry on regular academic work, but who feel the desire for refining and developing their ability to express themselves clearly and effectively. As much as possible, students receive individual attention.

Freshman Seminar

215-216 English for Bilinguals 215, fall; 216, spring. 3 credits each term. Not designed for students whose schooling has been entirely in English. M W F 2:30. M. Martin.

A course designed to strengthen the English language skills of students from American high schools whose language in the home is not English. Intensive work in written English is offered, with emphasis on sentence structure, cohesion, vocabulary expansion, maturity of style, and grammatical structure and pronunciation.

French

Languages and Linguistics

121-122 Elementary Course 121, fall; 122, spring. 4 credits each term. Intended for beginners or students placed by examination. Prerequisite for French 122: 121 or equivalent. Students who obtain a CEEB score of 560 after French 121-122 attain qualification and may enter the 200-level sequence; otherwise French 123 is required for qualification. Lec, R 9:05, 10:10, 11:15 or 1:25; drills, M T W F 8, 9:05, 10:10, 11:15, 12:20, 1:25, 2:30, or 3:35. J. Noblitt, N. Gaenslen.

A thorough grounding in all the language skills is given: listening, speaking, reading, and writing. Language practice is in small groups. Lectures cover grammar, reading, and cultural information.

123 Continuing French Fall or spring. 4 credits. Limited to students who have previously studied French and have a CEEB achievement score between 450 and 559. Satisfactory completion of French 123 fulfills the qualification portion of the language requirement. Lec, T 10:10 or 12:20; drills, M W R F 8, 9:05, 10:10, 11:15, 1:25, 2:30, or 3:35. J. Herschensohn.

An all-skills course designed as the final course in the sequence. A review of grammar is included in addition to reading, writing, and conversation.

200 Intermediate Course: Language and Literature Fall or spring. 3 credits. Prerequisite: qualification in French with a CEEB score no higher than 629. Offered by the Department of Romance Studies. Fall: M W F 9:05 or 12:20 or T R 8:40. Spring: M W F 9:05 or 12:20. D. Brewer and staff.

Designed to provide an introductory examination of contemporary French culture and literature. Texts read and discussed are selected for their cultural and humanistic value. Grammar is reviewed, and emphasis is on linguistic and analytic skills.

203 Intermediate Composition and Conversation Fall or spring. 3 credits. Prerequisite: qualification in French. Lec, T 11:15 or 1:25, W 2:30, or R 11:15; drills, M W F 8, 9:05, 10:10, 11:15, 12:20, 1:25, or 2:30. S. A. Littauer.

Weekly grammar review in addition to composition and conversation.

204 Intermediate Composition and Conversation Fall or spring. 3 credits. Enrollment limited. Prerequisite: French 203 or equivalent. Fall: lec, T 2:30 or W 1:25; drills, M W F 10:10, 2:30, or 3:35. Spring: lec, T 10:10 or W 1:25; drills, M W F 9:05, 10:10, 11:15, 12:20, or 1:25. S. A. Littauer.

Conversation, compositions, vocabulary expansion, and some grammar review (all based on contemporary texts).

211-212 Intermediate French 211, fall; 212, spring. 3 credits each term. Prerequisite for French 211: qualification. Prerequisite for French 212: French 211, 203, or placement by advanced standing examination. Offered by the Department of Romance Studies.

Fall: M W F 10:10 or 12:20. Spring: M W F 11:15 or 12:20. N. Furman and staff.

Designed to improve reading, writing, and speaking skills. Grammar is reviewed. Special emphasis is on vocabulary expansion, composition, and the development of reading competence. Students write short essays in French; readings focus on modern literature and culture.

310 Advanced Conversation Spring. 2 credits. Enrollment limited. T R 10:10. J. Béreaud and staff.

This course is specifically designed to increase the student's oral fluency in French. There will be no written work in class; slides and recordings will be used along with extensive discussions.

311-312 Advanced Composition and Conversation 311, fall; 312, spring. 4 credits each term. Prerequisite: French 212 or 204 or placement by special examination. Offered by the Department of Romance Studies. Fall: M W F 10:10 or 1:25; E. Morris. Spring: M W F 10:10 or 1:25; J. Béreaud.

All skills course. Reading and analysis of contemporary texts. Detailed study of present-day syntax in French 311. Weekly translations or essays in French.

401 History of the French Language Fall. 4 credits. Prerequisites: qualification in French and Linguistics 101. M W F 2:30. Staff.

Diachronic development of French from Latin with emphasis on phonological and morphological change. Course work includes problems in reconstruction, textual analyses, discussions of theoretical topics, and external history.

407 Applied Linguistics: French Fall. 4 credits. Prerequisite: qualification in French. M W F 3:35. J. S. Noblitt.

Designed to equip the student with the ability to apply linguistic descriptions in teaching French, with special emphasis on phonetics and morphology.

408 Linguistic Structure of French Spring. 4 credits. Prerequisites: qualification in French and Linguistics 101, or permission of instructor. M W F 2:30. Staff.

A descriptive analysis of modern French with emphasis on its phonology, morphology, and syntax.

410 Semantic Structure of French Fall or spring. 4 credits. Prerequisite: permission of instructor. Offered alternate years.

Hours to be arranged. L. R. Waugh. Introduction to French semantic elements — morphological, lexical and syntactic — from a Jakobsonian perspective.

[424 Composition and Style Spring. 4 credits. Prerequisite: French 312 or placement by special examination. Offered by the Department of Romance Studies. M W F 12:20. J. Béreaud.

Written work will include review of some areas of advanced grammar, the theory and practice of translation, and pastiches of certain French authors. The oral work will aim at enabling students to deliver a short and correct communication in the foreign language. Weekly papers, *explications de texte*, and exposes on cultural problems.]

[602 Linguistic Structure of Old and Middle French Spring. 4 credits. Prerequisite: French 408 or permission of instructor. Not offered 1980-81; next offered spring 1982.

Hours to be arranged. J. S. Noblitt.
Through the study of Old and Middle French texts, students analyze synchronically aspects of the grammar of the language at different periods.]

[604 Contemporary Theories of French Grammar] Fall. 4 credits. Prerequisite: permission of instructor.

Hours to be arranged. Staff.
Selected readings of twentieth-century French linguistics.]

700 Seminar in French Linguistics Spring, according to demand. 4 credits.

Hours to be arranged. Staff.
Seminars are offered according to faculty interest and student demand. Topics in recent years have included: current theories in French phonology; current theories in French syntax; semantics of French.

Literature

107 Freshman Seminar: Readings in Modern Literature Fall or spring. 3 credits.

Fall: M W F 9:05. Spring: M W F 9:05. Staff.
What sense of modernity is conveyed by literary works of our time that ask what it means to live in a century of world wars and triumphant technology? Representative texts of twentieth-century French literature are discussed in the context of current intellectual and social issues. Works by such writers as Gide, Malraux, Sartre, Ionesco, Genet, and Bataille (readings in English translation).

201 Introduction to French Literature Fall or spring. 3 credits. Prerequisite: qualification. French 201 serves as a prerequisite for all 300-level courses in French literature and is required of all majors. The course is divided into small sections of three types: those conducted in French; those that use more French as the term progresses; those conducted in English. The reading in each section is in French and is the same; students may write their principal papers in English. Relative freedom to change from one section of the course to another is given during the first two weeks.

Fall: M W F 9:05, 10:10, 11:15, or 12:20 or T R 10:10–11:25 or 8:40–9:50. (Tentatively, the sections primarily conducted in English will be M W F 9:05 and 12:20; the sections primarily conducted in French will be M W F 11:15 and T R 10:10–11:25. The section using both French and English will be M W F 10:10 and T R 8:40–9:50.) Spring: M W F 11:15 or T R 10:10–11:25. R. Klein and staff.

The work of five or six major French authors from the nineteenth and twentieth centuries is introduced. Stress is on literary analysis and the development of reading skills. The larger historical framework in which French literature is considered as a whole, and more general questions of cultural anthropology, linguistics, sociology, and aesthetics are raised. Readings are chosen from the works of such authors as Baudelaire, Flaubert, Mallarmé, Rimbaud, Proust, Sartre, Malraux, Beckett, and Ionesco.

202 Studies in French Literature Fall or spring. 3 credits. Prerequisite: French 201 or a CEEB achievement score of 650 or more (students with scores in the 560–649 range should see French 200). Required of all majors, but not limited to them. A fee is charged for a number of short texts distributed by the instructor.

Fall: T R 10:10–11:25; P. Lewis. Spring: M W F 10:10, 11:15, or T R 10:10–11:25; D. Brewer and staff.
Study of the classic literature of seventeenth-century France (Corneille, Racine, Molière, Madame de Lafayette) and its immediate forebears (Montaigne) and successors in the Enlightenment (Voltaire, Rousseau, Diderot, Beaumarchais).

[323 French Civilization] Fall. J. Béreaud. Not offered 1980–81; next offered 1981–82.]

[331 Masterpieces of French Drama I: The Classical Era] Fall. P. Lewis. Not offered 1980–81; next offered 1982–83.]

[332 Masterpieces of French Drama II: The Modern Era] Spring. D. Grossvogel. Not offered 1980–81; next offered 1982–1983.]

334 The Novel as Masterwork: French Novels from Pre-Romanticism to Symbolism Spring. 4 credits.

M W F 1:25. N. Furman.
The second in a series of three courses that survey the French novel, this course traces the evolution of the genre in the nineteenth century. Major works of Stendhal, Balzac, Flaubert, and Zola will be emphasized.

335 The Novel in France: From the Origins to the French Revolution Fall. 4 credits. Conducted in French.

T R 12:20–1:35. D. Brewer.
An examination of the transformations of the novel in France from Chrétien de Troyes to the Marquis de Sade, including works by such writers as Madame de Lafayette, Cyrano de Bergerac, Prévost, Voltaire, Laclos, Diderot, and Rousseau. Based on discussions of the novels themselves, questions raised will concern narration, realism, and genre; desire and the feminine subject; ideology, language, and power.

[336 Experimental and Contemporary French Novels: Subversion of the Novelistic Genre from Diderot to the Present] Fall. D. Grossvogel. Not offered 1980–81; next offered 1981–82.]

[337 French Poetry from the Middle Ages to Romanticism] Fall. E. Morris. Not offered 1980–81; next offered 1981–82.]

[347 Masterpieces of Medieval Literature. Not offered 1980–81.]

[368 The Baroque in France] A. Seznec. Not offered 1980–81.]

[369 French Classicism] P. Lewis. Not offered 1980–81; next offered 1981–82.]

[379 Victor Hugo and the Romantic Movement] Fall. N. Furman. Not offered 1980–81.]

381–382 Self, Family, and Polity in Renaissance Times (The Frederick G. Marcham Seminar; also Society for the Humanities 381–382 and History 381–382) 381, fall; 382, spring. 4 credits each term. Limited to 15 students.

Fall: discs. M W 2:30–3:45; Spring: no class meetings; students will pursue independent work in consultation with the instructors. E. Morris, J. Najemy.

An exploration of the relationships between the problematic notions of selfhood, family, and community, on the one hand, and historical experience, on the other. The course will use and confront the methods of social history and literary analysis, drawing occasionally on anthropology and psychoanalysis. The three principal texts will be Alberti, *Books on the Family*, Rabelais, *Gargantua and Pantagruel*; Montaigne, *Essays* (all in English translation); additional readings in historical and theoretical works.

387 From Parnassus to Surrealism Fall. 4 credits.

T R 2:30–3:45. R. Klein.
This course is conceived as a panoramic survey of roughly 100 years of French poetry, from 1830 to 1930. Beginning with the late Romantic work of the Parnassus poets (Gautier, Banville), it will touch on such major figures as Baudelaire, Vigny, Rimbaud, Mallarmé, Valéry, and Apollinaire. It will conclude with a brief examination of some exemplary Surrealist

poems. Close textual analysis of individual poems will serve to mark the principle stages in the transformation of French prosody and will provide a basis for constructing a theory of French literary history.

[394 Marx in France] R. Klein. Not offered 1980–81.]

419–420 Special Topics in French Literature 419, fall, 420, spring. 2–4 credits each term.

Prerequisite: permission of instructor.
Staff.
Guided independent study of special topics.

429–430 Honors Work in French May be taken without credit or for 4 credits with permission of the adviser. Open to juniors and seniors. Consult the director of the honors program.
E. Morris.

[447 Medieval Literature] Fall. A. Colby-Hall. Not offered 1980–81; next offered 1981–82.]

448 Medieval Literature Spring. 4 credits. Prerequisite: French 201 or permission of the instructor.

M W F 9:05. A. Colby-Hall.
This course will deal with the romance and the lyric. Facility in reading Old French and appreciation of these two major genres are the primary goals of this course.

[452 Theatre in Sixteenth-Century France] Spring. Not offered 1980–81.]

[456 Literature and the Arts in Sixteenth-Century France] Spring. Not offered 1980–81.]

[458 Montaigne] Spring. Not offered 1980–81.]

[461 The Theatre of Molière] Fall. Not offered 1980–81.]

[473 Diderot and the Enlightenment] Fall. Not offered 1980–81.]

483 Feminism and French Literature (also Women's Studies 483) Fall. 4 credits. Taught in French.

M W F 1:25. N. Furman.
The interaction between feminist concerns and literary expression brings to the fore an array of questions at the juncture of history and literature. Some of the topics discussed will be the representation of women in literature, the literary echoes of women's social *revendications*, the inscription of women writers in the literary canon, and feminist challenges to criticism. Authors to be studied include Mme. de Lafayette, Mme. De Staël, George Sand, Colette, Simone de Beauvoir, Marguerite Duras, and Hélène Cixous.

[486 Mallarmé] Spring. R. Klein. Not offered 1980–81.]

[490 French Film and Literature in the Twentieth Century] Spring. D. Grossvogel. Not offered 1980–81.]

496 The Aesthetics of Coincidence (also Comparative Literature 496) Spring.

R 2–4. R. Klein.
Superstitious coincidence — the conjunction of events that have no causal relation but that seem unmistakably to signify one another — has been taken, at least since Baudelaire, as an exemplary poetic experience. It finds its theoretical grounds in the Romantic doctrine of *correspondances* between man and nature. It has acquired for some writers the status of an unimpeachable scientific fact—a compelling instance of fiction becoming reality. In the twentieth century, Jungian psychology and Surrealist aesthetics have made the most systematic attempts to explore the nature of uncanny coincidence.

Readings in this course will include works of Jung, Freud, Breton, Poe, and other more contemporary writers.

[637 Old French Dialectology] Fall. A. Colby-Hall. Not offered 1980–81.]

639–640 Special Topics in French Literature 639, fall, 640, spring. 4 credits each term. Staff.
Guided independent study for graduate students.

[644 Medieval Seminar: The Old French Epic] Not offered 1980–81.]

646 Medieval Seminar: Villon Spring. 4 credits. W 2:30–4:30. A. Colby-Hall.
Topic: The structure and meaning of Villon's two fictional testaments.

[648 Medieval Seminar: La Roman de la Rose] Spring. A. Colby-Hall. Not offered 1980–81.]

658 Poetry and the Powers Spring. 4 credits. T 2–4. E. Morris.

When authority is jeopardized by the free playing of imagination, wit, and art, repression ensues: poets are banished, or become clients, or culture is made official. Maybe it's all in the mind. The course will examine the varying connections of poets with church, crown, and academies from the reign of Henry II through the ministry of Richelieu. Poems of Ronsard, Du Bellay, D'Aubigné, Régnier, and Saint Amant will serve as major contrasting examples; themes will include flattery, subversion, and poetic distance.

661 Racine and His Critics Fall. 4 credits. Conducted in French. F 1:25–3:25. P. Lewis.

This course will combine work on three levels: (1) analytic reading of a half-dozen plays by Racine; (2) reading and discussion of interpretations of these plays by major critics (Barthes, Goldmann, Girard, Jauss, Mauron, Pavel, Picard, Starobinski, etc.); (3) theoretical discussion of the field of possible readings opened by the diverse examples of practical criticism considered and of the issues encountered in an attempt to choose among the possible approaches to the theatrical text.

[669 Seventeenth-Century Seminar: Illusion and Representation] P. Lewis. Not offered 1980–81.]

[689 Bohemians and Dandies] Fall. N. Furman. Not offered 1980–81.]

[693 The Poetics of Derrida] Fall. R. Klein. Not offered 1980–81.]

[696 Memory, Creation, and the Novel (also Comparative Literature 596)] Spring. D. Grossvogel. Not offered 1980–81.]

Related Courses in Other Departments

The Applications of Reason: For and Against Civilization (Society for the Humanities 413–414)

Hume and Rousseau (Comparative Literature 416)

Hegel's Phenomenology in Context (Comparative Literature 474)

Critical Perspectives: Roland Barthes (Comparative Literature 606)

Germanic Studies

Languages and Linguistics

121–122 Elementary Course 121, fall; 122, spring. 4 credits each term. Prerequisite for German 122: 121 or equivalent. Intended for beginners or

students placed by examination. Students who obtain a CEEB score of 560 after German 121–122 attain qualification and may enter the 200-level sequence; otherwise German 123 is required for qualification.

Lec, T 9:05, 11:15, or 2:30; drills, M W R F 8, 9:05, 10:10, 11:15, 12:20, 1:25, or 2:30. W. Harbert.

A thorough grounding in all the language skills is given: listening, speaking, reading, and writing. Language practice is in small groups. Lectures cover grammar, reading, and cultural information.

123 Continuing German Fall or spring. 4 credits. Limited to students who have previously studied German and have a CEEB achievement score between 450 and 559. Satisfactory completion of German 123 fulfills the qualification portion of the language requirement.

Fall: lec, M 2:30; drills, T–F 9:05, 10:10, 11:15, or 12:20. Spring: lec, M 2:30; drill, T–F 10:10 or 12:20. W. E. Harbert.

An all-skills course designed to prepare students for study at the 200 level.

203 Intermediate Composition and Conversation Fall or spring. 3 credits. Prerequisite: qualification in German.

Fall: M W F 9:05, 10:10, 11:15, or 1:25. Spring: M W F 9:05 or 1:25. G. Valk.

204 Intermediate Composition and Conversation Fall or spring. 3 credits. Prerequisite: German 203 or permission of instructor.

Fall: M W F 11:15. Spring: M W F 10:10 or 11:15. G. Valk.

303–304 Advanced Composition and Conversation 303, fall; 304, spring. 4 credits each term. Prerequisite for German 303: German 204 or equivalent. Prerequisite for German 304: 303 or equivalent.

M W F 1:25. G. Valk.

Emphasis is on increasing the student's oral and written command of German. Detailed study of present-day syntax and different levels of style.

401 Introduction to Germanic Linguistics Fall. 4 credits. Prerequisite: Linguistics 101 or permission of instructor.

Hours to be arranged. F. van Coetsem. Survey of major issues in Germanic linguistics, with emphasis on historical and dialectal problems.

[402 History of the German Language] Spring. 4 credits. Prerequisite: German 204 and Linguistics 101 or permission of instructor. Offered alternate years. Not offered 1980–81; next offered spring 1982.

Hours to be arranged. J. Jasanoff, F. van Coetsem. Phonological, syntactic, and semantic developments from pre-Old High German times to the present.]

[403 Modern German Phonology] Fall. 4 credits. Prerequisites: German 304 or equivalent, and Linguistics 101, 111, or 601. Not offered 1980–81.

Hours to be arranged. F. van Coetsem. The phonological system of German is viewed from various theoretical approaches.]

[404 Modern German Syntax] Spring. 4 credits. Prerequisites: German 304 or equivalent, and Linguistics 101 or 601. Not offered 1980–81.

Hours to be arranged. W. Harbert. An application of selected theoretical syntactic models to problems in the syntax of modern German.]

[405 German Dialectology] Fall. 4 credits. Prerequisite: German 304 or equivalent, and Linguistics 101 or equivalent. Not offered 1980–81; next offered 1981–82.

M W F 11:15. H. L. Kufner. Survey of German dialects, the work done at the Sorachatlas, and a discussion of modern approaches to dialectology.]

[406 Runology] Fall. 4 credits. Prerequisite: German 401. Not offered 1980–81; next offered 1982–83.

Hours to be arranged. F. van Coetsem. A study of the inscriptions in the older *futhark* and their relevance to historical Germanic linguistics.]

[407 Applied Linguistics: German] Fall. 4 credits. Not offered 1980–81.

M W F 11:15. H. L. Kufner. Designed to equip the teacher of German with the ability to apply current linguistic theory to the second-language learning situation.]

[408 Linguistic Structure of German] Spring. 4 credits. Prerequisites: German 204 and Linguistics 101–102, or permission of instructor. Not offered 1980–81; next offered 1981–82.

Hours to be arranged. H. L. Kufner. A descriptive analysis of present day German with emphasis on phonology and syntax.]

[602 Gothic] Spring. 4 credits. Prerequisite: Linguistics 101. Not offered 1980–81.

Hours to be arranged. F. van Coetsem. Linguistic structure of Gothic with extensive readings of Gothic texts.]

[603–604 Old Saxon, Old High German, Old Low Franconian, Old Frisian] Fall, 603; spring, 604. 4 credits each term. Prerequisite: Linguistics 102. F. van Coetsem. Offered alternate years. Not offered 1980–81.]

605 Structure of Old English Fall. 4 credits. Prerequisite: German 401.

Hours to be arranged. W. Harbert. Linguistic overview of Old English with emphasis on phonology and syntax.

606 Topics in Historical Germanic Fall. 4 credits. Prerequisite: German 401.

Hours to be arranged. F. van Coetsem. The development of the sound system from Proto-Germanic to its daughter languages.

607 Topics in Historical Germanic Morphology Spring. 4 credits. Prerequisite: German 401.

Hours to be arranged. J. Jasanoff. The Germanic verbal system and its Indo-European origins.

608 Topics in Historical Germanic Syntax Spring. 4 credits. Prerequisite: German 401.

Hours to be arranged. W. Harbert. A diachronic and comparative investigation of syntactic processes in the older Germanic languages.

609–610 Old Norse Fall, 609; spring 610. 4 credits each term.

Hours to be arranged. V. Bjamar. Study of the linguistic structure of Old Norse with extensive reading of Old Norse texts.

611 Readings in Old High German and Old Saxon Fall. 4 credits.

Hours to be arranged. J. Jasanoff. Texts are chosen to suit the interests of the students taking the course, but normally include selections from the more extensive Old High German and Old Saxon sources (*Otfrid*, *Tatian*, *Heliant*) as well as representative shorter works, such as *Hildebrandslied*, *Muspilli*, and *Genesis*.

612 Germanic Tribal History Spring. 4 credits. Prerequisite: German 401.

Hours to be arranged. F. van Coetsem. The history of the Germanic tribes from about 500 B.C. to A.D. 500; introduces the study of Proto-Germanic, and the separation of the Germanic languages.

631–632 Elementary Reading I 631, fall; 632, spring. 3 credits each term. Limited to graduate

students. Prerequisite for German 632: 631 or equivalent.

M W F 4:30 or T R 11:15–12:30. I. Kovary. Emphasis is on developing skill in reading, although some attention will be devoted to the spoken language, especially to listening comprehension.

710 Seminar in Germanic Linguistics Fall or spring, subject to the needs of students and to the limitations of staff time. 4 credits.

Hours to be arranged. W. Harbert.

720 Seminar in Comparative Germanic Linguistics Fall or spring, subject to the needs of students and to the limitations of staff time. 4 credits.

Hours to be arranged. Staff.

Topics include phonology, morphology, syntax, and dialectology of the older Germanic languages.

730 Seminar in German Linguistics Fall or spring, subject to the needs of students and the limitations of staff time. 4 credits.

Hours to be arranged. Staff.

Selected topics including the history, structure, and dialects of German.

740 Seminar in Dutch Linguistics Fall or spring, subject to the needs of students and to the limitations of staff time. 4 credits.

Hours to be arranged. F. van Coetssem.

Selected topics including the history, structure, and dialects of modern Dutch.

German Literature

Freshman Seminars

109 Folk Literature and Folk Poetry Fall and spring. 3 credits each term.

M W F 8, or 10:10, or 12:20 or T R 8:30–10.

I. Ezergailis and staff.

A study of folk literature, ballads, myths, and other forms of primitive literature. Readings in the Grimm brothers, H. C. Andersen, Old Icelandic mythological texts, saints' lives, Child ballads, and selected secondary literature, including Freud. All readings in English.

151 Kafka, Hesse, Brecht, and Mann Fall and spring. 3 credits each term.

T R 9:25–11:05. H. Deinert and staff.

The course will be based on complete works (in English translation) by four representative German authors of the first half of this century. Although dealing with works of great popular appeal (*Demian*, *Siddhartha*, *The Metamorphosis*, *Death in Venice*, *Mother Courage*, *Galileo*, and others) the emphasis of the course will be on improving writing skills. We will meet twice a week for lectures and discussion. In lieu of a third class meeting there will be regular conferences between students and their instructors to discuss the papers.

Courses Offered in German

201 Introduction to German Literature I Fall and spring. 3 or 4 credits each term. Prerequisite: qualification in German or permission of instructor. Taught in German.

Fall: M W F 12:20 or 1:25 or T R 12:20–1:35.

Spring: T R 12:20–1:35 or M W F 1:25. P. W. Nutting and staff.

An intermediate course designed to improve reading, listening, and speaking skills. Emphasis is placed on developing reading competency, tools of literary analysis and expansion of vocabulary. Grammar review included. Readings from major twentieth-century authors, including Brecht, Dürrenmatt, Böll, Thomas Mann, Freud, Kafka, Musil, and Bachmann.

202 Introduction to German Literature II Spring. 3 or 4 credits. Prerequisite: German 201 or permission of instructor. Taught in German.

M W F 12:20 or T R 12:20–1:35. P. W. Nutting and staff.

Emphasizes skills in reading and interpreting German literature, using representative texts of major nineteenth-century authors. Included will be discussions of the drama (Kleist, Büchner), lyric poetry (Goethe, Hölderlin, the Romantics, Heine), the essay (Kleist, Heine, Marx and Engels), and the novella (Kleist, Keller, Meyer, Hauptmann).

211 Intensive Workshop in Germanic Studies for Freshmen I Fall. 6 credits. Intended for entering freshmen with extensive training in the German language (CEEB achievement score of 680 or comparable evidence; please consult instructor).

Taught in German. Satisfies the language and distribution requirements or the Freshman Seminar requirement.

T R 2:30–4:30. H. Deinert.

Not intended as a survey, but rather as a rigorous seminar designed to familiarize students with literary forms and the tools of critical analysis. The course will provide an intensive introduction to the study of German literature through the discussion of exemplary prose works, dramas, and poems from the eighteenth century to the present.

312 Intensive Workshop in Germanic Studies for Freshmen II Spring. 4 credits. Taught in German.

May be used to satisfy the Freshman Seminar requirement.

T R 2:30–4. H. Deinert.

Designed primarily as a sequel to German 211. Emphasis is on German literature since 1900 (Thomas Mann, Hesse, Kafka, Brecht, Dürrenmatt, Peter Weiss, Plenzdorf, Rilke, Benn, Celan). Supplementary reading from contemporary philosophy, psychology, sociology, and political theory.

[305 Modern Germany Not offered 1980–81.]

324 Old Icelandic Literature: Eddic Poetry Fall. 4 credits. Prerequisite: German 610 or permission of instructor.

M W F 12:20. J. C. Harris.

Eddic poetry, read in the original language.

354 Schiller Fall. 4 credits. Prerequisite: German 201–202 or permission of instructor. Taught in German.

W 2:30–4:30. H. Deinert.

A discussion of Schiller's dramas, selected poetry, philosophical and aesthetic writing against the political and intellectual background of eighteenth-century Europe.

[355 The Age of Goethe Not offered 1980–81.]

[356 Goethe's Faust Not offered 1980–81.]

[357 Romanticism Not offered 1980–81.]

359 Nineteenth-Century Literature Spring.

4 credits. Prerequisite: German 201–202, or permission of instructor. Taught in German.

M W F 10:10. C. N. Creedy.

This course attempts to cover some of the most important tendencies in the beginning of the nineteenth century in German literature. Attention will be paid to historical (Marx) as well as literary (Heine) texts.

[361 Modern German Literature I: Contemporary German Prose Not offered 1980–81.]

362 Modern German Literature II: Twentieth-Century Prose Fall. 4 credits.

Prerequisite: German 201–202 or permission of instructor. Taught in German.

M W F 10:10. P. W. Nutting.

Examination of literary and extra-literary prose forms (novel, novella, essay, satire, *Feuilleton*, *Reportage*, short story) of the 1910s and 1920s in their social, political, and cultural context. Writers discussed will

include Schnitzler, Sternheim, Benn, Döblin, Kafka, Kisch, Musil, Tucholsky, Kästner, Freud. Students will be encouraged to practice their spoken and written German.

[363 Modern German Literature III: Contemporary Literature Not offered 1980–81.]

365 Lyrical Poetry Not offered 1980–81.]

Courses in English Translation

[311 Modern German Drama in English Not offered 1980–81.]

[314 Nietzsche, the Man and the Artist Not offered 1980–81.]

[315 Topics in German Literature I: The Modern German Novel in English Translation Not offered 1980–81.]

[350 Yiddish Literature in English Translation Not offered 1980–81.]

[375 The Shtetl in Modern Yiddish Fiction Not offered 1980–81.]

[377 Topics in Yiddish Literature Not offered 1980–81.]

Advanced Courses

405–406 Introduction to Medieval German Literature 405, fall; 406, spring. 4 credits each term. Intended for students with no previous knowledge of Middle High German.

M W F 10:10. Fall: B. C. Buettner; spring: A. Groos. The course will provide a survey of the court epic, the heroic epic, and *Minnesang*. Emphasis will be placed on a thorough understanding of the Middle High German language.

417–418 The Great Moments of German Literature 417, fall; 418, spring. 4 credits each term. Prerequisite: reading knowledge of German.

M W F 11:15. E. A. Blackall.

Recommended for graduate students and undergraduates, whether majoring in German or not, who wish to acquire an overall view of the whole range of German literature from the earliest texts to the beginning of the present century. The course will consist of lectures and discussion classes. The lectures will aim at a characterization of the temper of a period or of the essential nature of a certain writer. The discussion periods will concentrate on individual works illustrative of the topics of the lectures. All works will be read in German, except for medieval works which will be read in translation, though some short passages in the original medieval German will be explicated.

[427 Baroque Literature Not offered 1980–81.]

[438 Twentieth-Century German Literature Not offered 1980–81.]

451–452 Independent Study 451, fall; 452, spring. 1–4 credits each term. Prerequisite: permission of instructor.

Hours to be arranged. Staff. Extensive reading of texts in addition to regular course work, under the direction of a member of the department.

Seminars

For complete descriptions of courses numbered 600 or above consult the appropriate instructor.

611 Seminar in Old Icelandic Literature I Fall. 4 credits. Prerequisite: German 610 or permission of instructor.

Hours to be arranged. J. C. Harris. Old Icelandic mythological texts, with focus on the female figures and the role of women.

[612 Seminar in Old Icelandic Literature II Not offered 1980–81.]

[623 Seminar in Medieval German Literature I Not offered 1980–81.]

624 Seminar in Medieval German Literature II Spring. 4 credits.
W 1:25. A. Groos.
Topic to be announced.

625 The Northern Renaissance and Reformation Fall. 4 credits.
T 1:25. S. L. Gilman.

[629 The Enlightenment Not offered 1980–81.]

[631 From *Wilhelm Meister* to *Buddenbrooks* Not offered 1980–81.]

[632 Goethe's Poetry Not offered 1980–81.]

[633 Basic Texts of Romanticism Not offered 1980–81.]

[634 The Romantic Novel Not offered 1980–81.]

635 Jean Paul and the Eighteenth-Century Humorous Novel (also Comparative Literature 635) Spring. 4 credits. Prerequisite: permission of instructor.

R 2:30. P. W. Nutting.

Jean Paul's theory of humor will be used as the starting point for discussion of the English humorous novel and its influence on his later fiction. Other theories of the comic (Hegel, Vischer, Freud, Bergson) will also be discussed in order to consider their relevance in light of contemporary developments in narrative theory. Reading knowledge of German suggested, although English translations of Jean Paul will be available.

[636 Nineteenth-Century Drama Not offered 1980–81.]

637 Seminar in Realism: The *Novelle* Spring. 4 credits. Prerequisite: permission of instructor.
W 1:25. H. Deinert.

638 Twentieth-Century German Literature: Thomas Mann Fall. 4 credits.

R 1:25. J. P. Stern, I. Ezergalis.

Students should have some acquaintance with all the main novels: *Buddenbrooks*, *Magic Mountain*, *Lotte in Weimar*, the Joseph novels, *Dr. Faustus*, and *Felix Krull*. Knowledge of German helpful but texts can be read in translation.

[639 Modern Lyric Poetry Not offered 1980–81.]

[641 The Postwar German Novel Not offered 1980–81.]

[650 Graduate Seminar in Medieval Literature Not offered 1980–81.]

682 Seminar on Richard Wagner (also Music 682) Spring. 4 credits.

M 1:25. J. Webster, E. A. Blackall.

An analysis of Wagner's music-dramas, with special reference to *Tristan und Isolde* and *Die Meistersinger von Nürnberg*. Attention will be paid to the literary and musical context of Wagner's works, and to the relations between his theories and his practice.

753–754 Tutorial in German Literature 753 fall; 754, spring. 1–4 credits each term. Prerequisite: permission of instructor.
Hours to be arranged. Staff.

Related Courses Offered in Other Departments

Culture as Semiotic System (Comparative Literature 295)

Introduction to Psychopathological Texts (Comparative Literature 310)

Comedy (Comparative Literature 312)

Being, God, and Mind (Comparative Literature 359)

The European Novel (Comparative Literature 363–364)

Literature and Society (Comparative Literature 380)

Introduction to Twentieth-Century Criticism (Comparative Literature 395)

Hegel's Phenomenology in Context (Comparative Literature 474)

Fiction and the Irrational (Comparative Literature 479)

Hermeneutics (Comparative Literature 699)

Modern Greek

See listings under Classics.

Modern Hebrew

See listings under Near Eastern Studies.

Hindi-Urdu

101–102 Hindi-Urdu Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Hindi 102: 101 or equivalent.

M–F 9:05. G. Kelley

A semi-intensive course for beginners. A thorough grounding in all the language skills is given: listening, speaking, reading, and writing.

201–202 Hindi Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Hindi 201: qualification in Hindi. Prerequisite for Hindi 202: 201 or permission of instructor.

M W F 10:10. G. Kelley.

203–204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite for Hindi 203: qualification in Hindi. Prerequisite for Hindi 204: 203 or permission of instructor.

Hours to be arranged. G. Kelley.

301–302 Readings in Hindi Literature 301, fall; 302, spring. 4 credits each term. Prerequisite for Hindi 301: Hindi 202. Prerequisite for Hindi 302: 301 or equivalent.

Hours to be arranged. G. Kelley.

303–304 Advanced Composition and Conversation 303, fall; 304, spring. 4 credits each term. Prerequisite for 303: Hindi 204 or equivalent. Prerequisite for Hindi 304: 303 or equivalent.

Hours to be arranged. G. Kelley.

305–306 Advanced Hindi Readings 305, fall; 306, spring. 4 credits each term. Prerequisite for Hindi 305: 202 or equivalent. Prerequisite for 306: 305 or equivalent.

Hours to be arranged. G. Kelley. Intended for those who wish to do readings in history, government, economics, etc., instead of literature.

[401 History of Hindi Fall or spring. 4 credits. Prerequisite: Hindi 101–102 or equivalent, or Linguistics 102. Not offered 1980–81.]

For complete descriptions of courses numbered 600 and above, consult the appropriate instructor.

700 Seminar in Hindi Linguistics Fall or spring. 3 credits. Prerequisite: permission of instructor.
Hours to be arranged. J. W. Gair, G. B. Kelley.

Indonesian

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Indonesian 102: 101.

M–F 8, plus 2 more hours to be arranged. J. U. Wolff.

A semi-intensive course for beginners.

201–202 Indonesian Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Indonesian 201: qualification in Indonesian. Prerequisite for Indonesian 202: 201 or permission of instructor.

Hours to be arranged. J. U. Wolff.

203–204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite for Indonesian 203, qualification in Indonesian. Prerequisite for Indonesian 204: 203 or permission of instructor.

Hours to be arranged. J. U. Wolff.

300 Linguistic Structure of Indonesian Fall or spring. 4 credits. Prerequisites: Indonesian 101–102 or equivalent, and Linguistics 101.

Hours to be arranged. J. U. Wolff.

301–302 Readings in Indonesian and Malay 301, fall; 302, spring. 4 credits each term. Prerequisite for 301: Indonesian 201–202 or equivalent. Prerequisite for Indonesian 302: 301.

Hours to be arranged. J. U. Wolff.

303–304 Advanced Indonesian Conversation and Composition 303, fall; 304, spring. 4 credits each term. Prerequisite for Indonesian 303: 204; Prerequisite for Indonesian 304: 303 or equivalent.

Hours to be arranged. J. U. Wolff.

305–306 Directed Individual Study 305, fall; 306, spring. 2–4 credits. Prerequisite: Indonesian 301–302 and 303–304 or equivalent knowledge of Indonesian or Malay.

Hours to be arranged. J. U. Wolff.

A practical language course on an advanced level in which the students will read materials in their own field of interest, write reports, and meet with the instructor for two hours a week for two credits and twice a week for four credits.

401–402 Advanced Readings in Indonesian and Malay Literature 401, fall; 402, spring. 4 credits each term. Prerequisite for Indonesian 401: 302 or equivalent. Prerequisite for Indonesian 402: 401 or equivalent.

Hours to be arranged. J. U. Wolff.

FALCON

161–162 Intensive Course 161, fall; 162, spring. 16 credits each term. Prerequisite: permission of instructor.

M–F, 6 hours each day. J. U. Wolff and staff.

Related Course

Malayo-Polynesian Linguistics (Linguistics 655–656)

Italian

Languages and Linguistics

121–122 Elementary Course 121, fall; 122, spring. 4 credits each term. Prerequisite for Italian 122: 121 or equivalent. Intended for beginners or students placed by examination. Students who obtain a CEEB score of 560 after Italian 121–122 attain qualification and may enter the 200-level sequence; otherwise Italian 123 is required for qualification.

Lec, T 10:10; drills M W R F 8, 9:05, 12:20, 1:25, or 2:30. C. Rosen and staff.

A thorough grounding is given in all the language skills: listening, speaking, reading, and writing. Language practice is in small groups. Lectures cover grammar and cultural information.

123 Continuing Italian Fall. 4 credits. Limited to students who have previously studied Italian and have a CEEB achievement score between 450 and 559. Satisfactory completion of Italian 123 fulfills the qualification portion of the language requirement.
M-F 11:15. C. Rosen and staff.

203-204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite for Italian 203: qualification in Italian. Prerequisite for Italian 204: 203 or equivalent.

M W F 1:25 or 2:30. C. Rosen and staff.
Guided conversation, composition, reading, pronunciation, and grammar review emphasizing the development of accurate and idiomatic expression in the language.

Note: Students placed in 200-level courses also have the option of taking courses in introductory literature; see separate listings under Italian 200, 201, and 202 for descriptions of these courses, any of which may be taken concurrently with the 203-204 language courses described above. The introductory literature courses are offered by the respective literature departments and the 203-204 language courses by the Department of Modern Languages and Linguistics.

300 Advanced Composition and Conversation Spring. 2 credits. Prerequisite: Italian 204.

Hours to be arranged. C. Rosen and staff.
Further development of all skills. Diverse readings illustrating varieties of style. Material for conversation is prepared by students according to their individual interests.

402 History of the Italian Language Spring. 4 credits. Prerequisite: Linguistics 101 and qualification in Italian, or permission of instructor. Offered alternate years.
M W F 2:30. C. Rosen.

403 Structure of Italian Fall. 4 credits. Prerequisite: Linguistics 102 and qualification in any Romance language. Offered alternate years.
M W F 2:30. C. Rosen.

Fundamentals of Italian grammar in the light of recent research. Emphasis is on syntax. Some selected topics in phonology, derivational morphology, and semantics.

[432 Italian Dialectology Spring, according to demand. 4 credits. C. Rosen. Not offered 1980-81.]

[700 Seminar in Italian Linguistics Offered according to demand. 4 credits. C. Rosen. Not offered 1980-81.]

Literature

201 Introduction to Modern Italian Literature Fall. 3 credits. Required of all majors in Italian. May be used to fulfill the distribution requirement. Prerequisite: reading knowledge of Italian, or knowledge of another Romance language and permission of instructor. Graduate students may take the course on an S-U basis to fulfill area examination requirements.

M W F 10:10. A. Grossvogel.
Classes are devoted to literature from the Middle Ages through the seventeenth century. Some focus is on language instruction.

202 Introduction to Modern Italian Literature Spring. 3 credits. Conducted in Italian.

M W F 10:10. Staff.
Works in Italian literature from the eighteenth century to the present will be read and discussed, with emphasis on the major authors of the twentieth century.

322 Italian Civilization Fall. 4 credits.

T R 10:10-11:25. A. Grossvogel.
A historical and cultural exploration of Italy region by region. The course will include the showing of Folco Quilici's fourteen-part film series "Italy seen from the sky" together with taped interviews and texts by contemporary writers on literature, politics, and folklore.

[327-328 Dante: *La Divina Commedia* (also Italian 527-528) Not offered 1980-81.]

[334 Dante In Translation (also Comparative Literature 344) Not offered 1980-81.]

[336 Boccaccio Not offered 1980-81.]

[359-360 The Italian Renaissance Not offered 1980-81.]

[366 Seventeenth-Century Prose Not offered 1980-81.]

[370 Eighteenth-Century Thought Not offered 1980-81.]

[381 Verga, Svevo, and Pirandello Not offered 1980-81.]

[387 Nineteenth-Century Poetry: Leopardi Not offered 1980-81.]

[390 Contemporary Narrative in Italy Not offered 1980-81.]

[395 Twentieth-Century Prose: Contemporary Italian Short Fiction Not offered 1980-81.]

[399 Postwar Italy: The Film as a Cultural, Artistic, and Political Reflector Fall. 4 credits. Not offered 1980-81; next offered fall 1981.
T R 2:30-3:45. D. Grossvogel.

Postwar Italian films will be analyzed, as the explicit and implicit vehicles of social forces, through their artistic, semiotic, psychological, and economic functions. Films will be shown on Tuesdays and discussed on Thursdays. Discussions will be conducted in English; films will be subtitled. There will also be reading material assigned.]

419-420 Special Topics in Italian Literature 419, fall; 420, spring. 2-4 credits each term. Prerequisite: permission of instructor.
Staff.
Guided independent study of specific topics.

[437 Petrarch: *Canzoniere* Not offered 1980-81.]

[472 Eighteenth-Century Theatre Not offered 1980-81.]

[486 The Nineteenth Century Not offered 1980-81.]

490 Verga, D'Annunzio, and Pirandello (also Comparative Literature 490) Fall. 4 credits.

W 3:30-5:30. A. Grossvogel.
Three Italian writers at the crossroads of naturalism, symbolism, and the avant-garde. The course will focus on their narratives and dramas and will illustrate their poetics. Reading knowledge of Italian desirable; lectures in English. An hour of discussion in Italian will be arranged for students who know the language.

[496 Futurism in Italy Not offered 1980-81.]

[498 Contemporary Poetry Not offered 1980-81.]

[527-528 Special Topics in the *Divine Comedy* Not offered 1980-81.]

[559-560 The Italian Renaissance Not offered 1980-81.]

[590 Contemporary Narrative in Italy (also Italian 390) Not offered 1980-81.]

639-640 Special Topics in Italian Literature 639, fall; 640, spring. 4 credits each term.
Staff.

Related Course in Another Department

Love Books in the Middle Ages (Society for the Humanities 417-418)

Japanese

Languages and Linguistics

101-102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Japanese 102: 101 or equivalent. Intended for beginners or for those who have been placed in the course by examination.

Lecs, M W F 10:10; drills, M-F 9:05 or 12:20.
E. H. Jordan and staff.
A thorough grounding is given in all the language skills: listening, speaking, reading, and writing.

123 Accelerated Introductory Japanese Fall. 6 credits. Prerequisite: permission of instructor.
Lecs, M W F 10:10 (with Japanese 101-102); drills, M W F 12:20. E. H. Jordan and staff.
Accelerated training in listening, speaking, reading, and writing for students who have already acquired a limited facility in Japanese through residence in Japan or brief formal study, but who require additional training to qualify for admission to Japanese 102.

141-142 Japanese for Business Purposes 141, fall; 142, spring. 4 credits each term. Prerequisite for Japanese 142: 141 or permission of instructor.
Hours to be arranged. E. H. Jordan and staff.
Introductory Japanese for specialists in international business and economics.

201-202 Intermediate Japanese I 201, fall; 202, spring. 3 credits each term. Prerequisite for Japanese 201: 102 or equivalent. Prerequisite for Japanese 202: 201 or equivalent.
Lec, M W R 1:25; drills, W 10:10 (with Japanese 205-206). E. H. Jordan and staff.
Reading of elementary texts with emphasis on expository style.

203-204 Japanese Conversation 203, fall; 204, spring. 4 credits each term. Prerequisite for Japanese 203: 102 or equivalent. Prerequisite for Japanese 204: 203 or 205 or equivalent.
Lecs, M W 1:25; drills, M T R F 10:10 (with Japanese 205-206). E. H. Jordan and staff.
Training in listening and speaking for students who have acquired a basic oral proficiency.

205-206 Intermediate Japanese I and Conversation 205, fall; 206, spring. 6 credits each term. Prerequisite for Japanese 205: 102 or equivalent. Prerequisite for Japanese 206: 205 or equivalent.
Lec, M W R 1:25; drill, M-F 10:10. E. H. Jordan and staff.
A combination of Japanese 201-202 and 203-204, for students interested in developing both written and oral skills.

301-302 Intermediate Japanese II 301, fall; 302, spring. 4 credits each term. Prerequisite for Japanese 301: 202 or 206 or equivalent. Prerequisite for Japanese 302: 301 or equivalent.
M W F 2:30. Staff.
Reading of selected modern texts with emphasis on expository style.

303-304 Communicative Competence - Intermediate 303, fall; 304, spring. 3 credits each term. Prerequisite for Japanese 303: 204 or 206 or equivalent. Prerequisite for Japanese 304: 303 or equivalent. May be repeated for credit.
Hours to be arranged. E. H. Jordan and staff.

Drill in the use of spoken Japanese within the constraints set by a sampling of Japanese social settings.

401-402 Advanced Japanese 401, fall; 402, spring. 4 credits each term. Prerequisite for Japanese 401: 302 or equivalent. Prerequisite for Japanese 402: 401 or equivalent.

M W F 2:30. Staff.
Reading of selected modern texts with emphasis on expository style.

404 Linguistic Structure of Japanese Spring. 4 credits. Prerequisites: Japanese 102 or permission of instructor, and Linguistics 101.

Hours to be arranged. E. H. Jordan.

407-408 Oral Narration and Public Speaking

407, fall; 408, spring. 2 credits each term. Prerequisite: Japanese 304 or permission of instructor.

Hours to be arranged. Staff.
Instruction in storytelling, lecturing, and speechmaking, with emphasis on both the construction of discourse and Japanese patterns of oral delivery.

421-422 Directed Readings 421, fall; 422, spring. Credit to be arranged. Prerequisite: permission of instructor.

Hours to be arranged. Staff.
Topics are selected on the basis of student needs.

FALCON

161-162 Intensive Japanese 161, fall; 162, spring. 16 credits each term. Prerequisite: permission of instructor.

M-F, six hours each day. E. H. Jordan and staff.

Literature in Japanese

305-306 Introduction to Literary Japanese 305, fall; 306, spring. 4 credits each term. Prerequisite for Japanese 305: 302 or Japanese 162 or equivalent. Prerequisite for Japanese 306: 305 or equivalent.

305: M W F 10:10. 306: hours to be arranged.
B. deBary.

405-406 Intermediate Literary Japanese 405, fall; 406, spring. 4 credits each term. Prerequisite for Japanese 405: 306 or 402 or equivalent. Prerequisite for Japanese 406: 405 or equivalent.

Hours to be arranged. K. Brazell.

421-422 Directed Readings 421, fall; 422, spring. Credit to be arranged. Prerequisite for Japanese 421: 402 or equivalent. Prerequisite for Japanese 422: 421 or equivalent.

Hours to be arranged. Staff.
Topics are selected on the basis of student needs.

For complete descriptions of courses numbered 600 or above consult the appropriate instructor.

611 Seminar in Modern Literature Fall. 2 or 4 credits. Prerequisite: permission of instructor. Hours to be arranged. B. deBary.

612 Seminar in Classical Literature Spring. 2-4 credits. Prerequisite: permission of instructor. Hours to be arranged. K. Brazell.

621-622 Advanced Directed Readings 621, fall; 622, spring. Credit to be arranged. Prerequisite: permission of instructor.

Hours to be arranged. Staff.

See courses listed under Department of Asian Studies for Japanese literature courses in translation.

Javanese

131-132 Elementary Course 131, fall; 132, spring. 3 credits each term. Prerequisite for Javanese 131: qualification in Indonesian. Prerequisite for Javanese 132: Javanese 131 or equivalent.

Hours to be arranged. J. U. Wolff.
An elementary language course for those who have had no previous experience in the language.

133-134 Intermediate Course 133, fall; 134, spring. 3 credits each term. Prerequisite for Javanese 133: 132 or equivalent. Prerequisite for Javanese 134: 133 or equivalent.

Hours to be arranged. J. U. Wolff.

203-204 Directed Individual Study 203, fall; 204, spring. 3 credits. Prerequisite: Javanese 134 or equivalent.

Hours to be arranged. J. U. Wolff.
This is a practical language course on an intermediate level in which the students will work through readings and conversations under the guidance of a native speaker for three contact hours a week.

Old Javanese (see Linguistics 651-652)

Linguistics

101-102 Theory and Practice of Linguistics 101, fall; 102, spring. 4 credits each term.

M W F 9:05; disc, T or R 3:35. Staff.
An introductory course designed primarily for those who intend to major in a language or in general linguistics. (See Linguistics 111-112 for a course designed for nonmajors.) The course satisfies the social science distribution requirement.

111-112 Themes in Linguistics 111, fall; 112, spring. 4 credits each term. Linguistics 111 has no prerequisites. Prerequisites for Linguistics 112: Linguistics 111 (or 101 with permission of instructor). Intended primarily for nonmajors. (Prospective linguistics majors should see Linguistics 101-102.)

M W F 10:10. S. McConnell-Ginet.
Basic linguistic concepts are introduced; relationship of linguistics to other disciplines is explored; emphasis on biological, psychological, social, and cultural contexts; language acquisition and transmission; dialects and language change. This course satisfies the social science distribution requirement.

201 Phonetics Fall. 3 credits.

T R 12:20-1:35. J. E. Grimes.
Introductory level study of practical and theoretical aspects of phonetics; emphasis on identifying, producing, and transcribing speech sounds.

202 Instrumental Phonetics Spring. 3 credits.

T R 12:20-1:35. J. E. Grimes.
Prerequisite for 202 is 201. Intermediate level study of practical, experimental, and theoretical aspects of articulatory and acoustic phonetics.

244 Language and the Sexes (also Women's Studies 244) Spring. 4 credits. Prerequisites: Linguistics 101 or 111, or Psychology 215, or permission of instructor.

M W F 1:25. S. McConnell-Ginet.
A study of sexual differentiation in language and its significance for sex stereotyping, sexual stratification, socialization, and personal interactions.

302 Multilingual Societies and Cultural Policy

Spring. 4 credits.
T R 2:30-4. D. F. Solá.
An interdisciplinary analysis of the impact of bilingualism on society, particularly in education and communication arts. The "flexible-technology" model is used to suggest a method of evaluating policy and program alternatives.

303 Phonology Fall. 4 credits. Prerequisite: Linguistics 101 or 111 or 601 or the equivalent.

T R 8:30-9:45. L. R. Waugh.
A general survey of phonemics and of Jakobsonian distinctive feature theory.

304 Morphology Spring. 4 credits. Prerequisite: Linguistics 303 or permission of instructor.

T R 8:30-9:45. L. R. Waugh.
A general survey focusing on meaning and form in morphology, with special attention to morphophonemics and generative phonology.

306 Functional Syntax Fall. 4 credits.

Prerequisite: Linguistics 102 or permission of instructor.
M W F 10:10. D. F. Solá.
A general survey of syntactic theories which highlight grammatical function.

308 Dialectology Spring. 4 credits. Offered alternate years.

Hours to be arranged.
Methods and procedures of dialectological study with introduction to the major dialect atlases.

311-312 The Structure of English 311, fall; 312, spring. 4 credits each term. Prerequisite for Linguistics 311: 102 or permission of instructor. Prerequisite for Linguistics 312: 311 or permission of instructor.

M W F 2:30. S. McConnell-Ginet.
311 provides an overview of the syntactic structure of English, drawing upon relevant theoretical approaches. 312 deals with phonology, morphology, and special problems of English structure and semantics.

313 English for Teachers of English Fall. 4 credits. Prerequisites: for undergraduate majors, Linguistics 101-102 or equivalent; for non-linguistics majors, permission of instructor; for graduate students, concurrent registration in Linguistics 601.

T R 12:20-1:50. M. Martin.
A course in modern English for teachers of non-native speakers. An analysis of the phonetics, grammar, and semantics of the language in terms applicable to both classroom teaching and materials development.

314 Teaching English as a Foreign Language

Spring. 4 credits. Prerequisites: Linguistics 313 or permission of instructor.

T R 12:20-1:50. M. Martin.
Methods and techniques used in the teaching of English language skills to non-native speakers are examined. Attention is given to materials design and to current issues and new trends in the fields.

[318 Style and Language Spring. 4 credits. Prerequisite: Linguistics 101 or permission of instructor. G. M. Messing. Not offered 1980-81.]

[341 India as a Linguistic Area Fall. 4 credits. Prerequisite: Linguistics 102 or permission of instructor.

J. W. Gair, G. Kelley.
Cross-family influences in an area of interaction over a long time span are considered. No knowledge of Indian languages is expected. Not offered 1980-81.]

400 Language: A Functional and Semiotic System Spring. 4 credits. Prerequisites: Linguistics 101 and one other course in linguistics, or permission of the instructor.

Hours to be arranged. L. R. Waugh.
An introduction to the study of language as a functionally cohesive system and as a system of signs similar to other semiotic systems.

401 Language Typology Fall. 4 credits.

Prerequisite: Linguistics 304.
M W F 1:25. C. F. Hockett.
Examination of a variety of languages in relation to typological categories.

[402 Contrastive Analysis Spring, 4 credits. Prerequisite: Linguistics 101–102 or permission of instructor. H. L. Kufner. Not offered 1980–81; next offered spring 1982.]

403 Applied Linguistics and Second Language Acquisition Spring, 4 credits. Prerequisite: a course in the structure of a language at the 400 level. T R 10:10–11:25. J. S. Noblitt. Examination of the theoretical bases of applied linguistics including current language-teaching methodologies.

404 Comparative Methodology Fall, 4 credits. Prerequisite: Linguistics 303 or permission of the instructor. T R 2:30–3:45. R. B. Jones. Exemplification of the methods of comparative reconstruction of proto-languages using problems selected from a variety of language families; methods of evaluating reconstructions.

405–406 Sociolinguistics 405, fall; 406, spring. 4 credits each term. Prerequisites: Linguistics 101–102 or 111–112 or permission of instructor. Linguistics 405 is not a prerequisite to 406. Hours to be arranged. J. U. Wolff. Social influences (ethnic, socioeconomic, educational) on linguistics behavior; shifts in register, style, dialect, or language in different speech situations.

[410 Historical Linguistics: Methods and Approaches Fall, 4 credits. Prerequisite: Linguistics 102 or permission of instructor. J. Jasanoff. Not offered 1980–81.]

411–412 Transformational Grammar: Syntax and Semantics 411, fall; 412, spring. 4 credits each term. Prerequisite for Linguistics 412: 411. T R 10:10–11:25. J. S. Bowers. 411 introduces the theory of syntax within a generative-transformational framework. 412 is an advanced course on syntax and the relation of syntax to semantics.

[413–414 Generative Phonology 413, fall; 414, spring. 4 credits each term. J. S. Bowers. Offered alternate years. Not offered 1980–81; 1981–82.]

[415–416 Social Functions of Language 415, fall; 416, spring. 4 credits each term. Prerequisites: Linguistics 101 or 111, or permission of instructor. Not offered 1980–81; next offered 1981–82. G. Kelley. The function of language in society; social constraints on linguistic behavior, including taboos, jargons, registers, social and socially perceived dialects.]

417 History of the English Language Fall, 4 credits. Prerequisite: permission of instructor. M W F 1:25. G. Kelley. Development of modern English; external history; phonological, grammatical, and lexical change. The English language in America.

421 Linguistics Semantics Fall, 4 credits. Prerequisites: Linguistics 101–102 or equivalent, plus a course in syntax or the structure of English or some other language, or permission of instructor. M W F 11:15. S. McConnell-Ginet. An introduction to theories of word, sentence, and discourse meaning and their application in linguistic description; readings deal primarily with the semantic analysis of English.

[440 Dravidian Structures Fall or spring according to demand. 4 credits. Prerequisite: Linguistics 102. Not offered 1980–81. G. Kelley. A comparative and contrastive analysis of the structures of several Dravidian languages.]

442 Indo-Aryan Structures Fall or spring according to demand. 4 credits. Prerequisite: Linguistics 102. Hours to be arranged. J. W. Gair. Typological discussion of the languages of the subfamily: phonology and grammar.

493 Honors Thesis Research Fall, 4 credits. Hours to be arranged. Staff. May be taken before or after Linguistics 494 or may be taken independently.

494 Honors Thesis Research Spring, 4 credits. Hours to be arranged. Staff. May be taken as a continuation of, or before, Linguistics 493.

600 Field Methods Spring, 4 credits. Prerequisites: Linguistics 101 or 201. Hours to be arranged. F. E. Huffman. Elicitation, recording and analysis of data from a native speaker of a language not generally known to students.

601–602 Proseminar: Introduction to Graduate Study 601, fall; 602, spring. 4 credits each term. Primarily for entering graduate students majoring in general linguistics, but, with permission of instructor, open to those minoring in linguistics or majoring in the linguistics of specific languages. M W F 10:10 and M 3:35. Staff. A survey of the major sub-areas of linguistics. Emphasis is on basic concepts, current issues and their background, and methodology, with discussions and data-oriented problems based on extensive readings.

603 History of Linguistics Fall, 4 credits. T R 12:20–1:35. G. M. Messing. The history of linguistics from early Greek and Sanskrit grammarians to the modern period.

607 Schools of Linguistics Spring, 4 credits. Prerequisites: Linguistics 102 or 602 and permission of instructor. Hours to be arranged. J. E. Grimes. Readings and descriptions of major schools of linguistic thought in the twentieth century.

608 Discourse Analysis Spring, 4 credits. Prerequisite: permission of instructor. Hours to be arranged. J. E. Grimes. Linguistics theory applied to relationships beyond the sentence.

610 Topics in Transformational Grammar Fall or spring, 3 credits. Prerequisite: permission of instructor. Hours to be arranged. J. S. Bowers. A survey of the development and current state of generative grammatical theory.

[621–622 Hittite 621, fall; 622, spring. 4 credits each term. Prerequisite for Linguistics 621: permission of instructor. Prerequisite for Linguistics 622: 621 or permission of instructor. J. Jasanoff. Not offered 1980–81.]

631–632 Comparative Indo-European Linguistics 631, fall; 632, spring. 4 credits each term. Prerequisite for Linguistics 631: permission of instructor. Prerequisite for Linguistics 632: 631 or permission of instructor. M W F 2:30. J. Jasanoff. Fall: Introduction to phonology, branches of the family. Spring: Grammar.

640 Elementary Pali Fall or spring according to demand. 3 credits. Hours to be arranged. J. W. Gair. An introduction to the language of the canonical texts of Theravada Buddhism. Reading of authentic texts, with emphasis on both content and grammatical structure.

[641–642 Elementary Sanskrit 641, fall; 642, spring. 3 credits each term. Prerequisite for Linguistics 642: 641. Not offered 1980–81.]

651–652 Old Javanese Fall or spring according to demand. 4 credits. Hours to be arranged. J. U. Wolff. Grammar and reading of basic texts.

653–654 Seminar in Southeast Asian Linguistics 653, fall; 654, spring. 4 credits each term. Prerequisite: Linguistics 303 or permission of instructor. Linguistics 653 is not a prerequisite for 654. Hours to be arranged. R. B. Jones. Languages of mainland Southeast Asia. Topics, chosen according to student interests, may include description, dialectology, typology, comparative reconstruction, and historical studies.

655–656 Seminar in Malayo-Polynesian Linguistics 655, fall; 656, spring. 4 credits each term. Prerequisites for Linguistics 655: 102 and permission of instructor. Prerequisite for Linguistics 656: 655. Hours to be arranged. J. U. Wolff. Descriptive and comparative studies of Malayo-Polynesian languages.

657–658 Seminar in Austroasiatic Linguistics 657, fall; 658, spring. 4 credits each term. Prerequisites: Linguistics 102 and permission of instructor. Hours to be arranged. F. E. Huffman. Descriptive and comparative studies of Austroasiatic languages.

671 Comparative Slavic Linguistics Fall, 4 credits. Prerequisite: permission of instructor. Next offered as a sequence in 1981–82. Hours to be arranged. E. W. Browne. Sounds and forms of the Slavic languages and of prehistoric common Slavic; main historical developments leading to the modern languages.

[672 Comparative Slavic Linguistics Spring, 4 credits. Prerequisite: Linguistics 671 or permission of instructor. E. W. Browne. Next offered as a sequence with 671 in 1981–82.]

700 Seminar Fall or spring according to demand. Credit to be arranged. Hours to be arranged. Staff. Seminars are offered according to faculty interest and student demand. (Topics in recent years have included: subject and topic; Montague grammar; speech synthesis; linguistic computation; classical and autonomous phonology; Japanese sociolinguistics; relational grammar; semantics and semiotics; and others.)

701–702 Directed Research 701, fall; 702, spring. 1–4 credits. Staff.

751 Thai Dialectology Fall, 4 credits. Prerequisites: Linguistics 303 and permission of instructor. Hours to be arranged. R. B. Jones. Geographical distribution of the Thai languages and methods of classifying and subgrouping.

752 Comparative Thai Spring, 4 credits. Prerequisites: Linguistics 404 or equivalent and permission of instructor. Hours to be arranged. R. B. Jones. Comparative reconstruction of Proto-Thai including various points of view and criteria for subgrouping.

753 Tibeto-Burman Linguistics Fall, 4 credits. Prerequisites: Linguistics 404 or equivalent, and permission of instructor. Hours to be arranged. R. B. Jones.

Comparative reconstruction of Tibeto-Burman with emphasis on the Lolo-Burmese branch and historical study of Burmese.

Pali

See **Linguistics 640**.

Polish

131-132 Elementary Course 131, fall; 132, spring. 3 credits each term. Prerequisite for Polish 132: 131 or equivalent.
Hours to be arranged. E. W. Browne.

[**133-134 Elementary Course II** 133, fall; 134, spring. 3 credits each term. Prerequisite for Polish 134: 133 or equivalent. Not offered 1980-81; next offered 1981-82.]

Portuguese

121-122 Elementary Course 121, fall; 122, spring. 4 credits each term. Intended for beginners or those who have been placed in course by examination. Students may attain qualification upon completion of 122 by achieving a satisfactory score on a special examination.

Lec, W 12:20; recs, M T R F 12:20 or 1:25.
Staff.

A thorough grounding is given in all the language skills: listening, speaking, reading, and writing.

203-204 Intermediate Composition and Conversation

203, fall; 204, spring. 3 credits each term. Prerequisite for Portuguese 203: qualification in Portuguese. Prerequisite for Portuguese 204: 203 or permission of instructor.
M W F 10:10. Staff.

Conversational grammar review with special attention to pronunciation and the development of accurate and idiomatic oral expression. Includes readings in contemporary Portuguese and Brazilian prose and writing practice.

303-304 Advanced Composition and Conversation

303, fall; 304, spring. 4 credits each term. Prerequisite for Portuguese 303: 204 or equivalent. Prerequisite for Portuguese 304: 303 or equivalent.
M W F 12:20. Staff.

[305-306 Readings in Luso-Brazilian Culture

305, fall; 306, spring. 4 credits each term. Prerequisites: Portuguese 204 or equivalent or permission of instructor. Not offered 1980-81; next offered 1981-82.]

700 Seminar in Portuguese Linguistics

Fall or spring according to demand. 4 credits.
Hours to be arranged. Staff.
Selected problems in the structure of Portuguese.

Quechua

131-132 Elementary Course 131, fall; 132, spring. 3 credits each term. Prerequisite: qualification in Spanish.

M W F 11:15. D. F. Solá.

A beginning conversation course in the Cuzco dialect of Quechua.

133-134 Intermediate Course

133, fall; 134, spring. 3 credits each term. Prerequisite for Quechua 133: 131-132 or equivalent. Prerequisite for Quechua 134: 133 or equivalent.

Hours to be arranged. D. F. Solá.

An intermediate conversation and reading course. Study of the Huarochiri manuscript.

700 Seminar in Quechua Linguistics

Fall or spring. Credit to be arranged. Prerequisite: permission of instructor.

Hours to be arranged. D. F. Solá.

Romanian

131-132 Elementary Course 131, fall; 132, spring. Offered according to demand. 3 credits. Prerequisite for Romanian 132: 131 or equivalent.
Hours to be arranged. Staff.

133-134 Elementary Course II 133, fall; 134, spring. Offered according to demand. 3 credits. Prerequisite for Romanian 134: 133 or equivalent.
Hours to be arranged. Staff.

Romance Studies

Languages and Linguistics

321-322 History of the Romance Languages 321, fall; 322, spring. 4 credits each term. Prerequisite for 322: 321. Offered alternate years.
M W F 1:25. J. Herschensohn.

Diachronic development of the Romance languages from Latin, with emphasis on Spanish, French, Italian, and Romanian. 321 concentrates on external history and phonological changes; 322 concentrates on morphological and syntactic developments.

[323-324 Comparative Romance Linguistics

323, fall; 324, spring. 4 credits each term. Prerequisite for 324: 323. Offered alternate years. Not offered 1980-81.]
C. Rosen.

Basic characteristics of the Romance language family. Salient features of eight Romance languages; broad and localized trends in phonology, syntax, and the lexicon; elements of dialectology.]

620 Area Topics in Romance Linguistics Spring. 4 credits. May be repeated for credit. Topics vary.
Hours to be arranged. J. S. Noblitt.

[621 Problems and Methods in Romance

Linguistics Spring. 4 credits. C. Rosen. Not offered 1980-81; next offered spring 1982.]

[622 Romance Dialectology

Spring. 4 credits. Offered every third year. Not offered 1980-81.
Staff.

Diachronic and synchronic survey of dialects of the Romance language areas.

Literature

[355 The Picaresque Novel in a European Perspective (also Comparative Literature 355) Not offered 1980-81.]

459 Being, God, Mind: Humanistic Revolutions from Plato to Vico (also Spanish 459 and Comparative Literature 359) Fall. 4 credits.

T R 10:10. C. Arroyo.

A study of the origins of scientific language: body and soul, matter and form, act and potentiality, being. A study of the ideological background of Western literatures: the conception of human personality and the presentation of character, the conception of reality and the sense of literary structures. A study of the fusion of Greek thought and the Bible, and its reflection on the development of the ideas of freedom and equality in Western thought.

460 Biology and Theology: Approaches to the Origin of Life, Evolution, Heritage and Freedom, Sexuality and Death (also Comparative Literature 460) Spring. 4 credits.

T R 2:30-3:45. C. Arroyo.

A historical exploration of the conflicts between biology and the understanding of theological concepts about freedom and universal values. Readings include scientific material, biblical exegesis, and philosophical and theological texts by Bergson, Heidegger, and Rahner.

Related Courses in Other Departments

Comparative Literature

295 Culture as Semiotic System

343-344 Medieval Literature

380 Literature and Society

381 History and Theory of Drama

395 Introduction to Twentieth-Century Criticism

464 Early European Fiction

699 Hermeneutics

Russian

Languages and Linguistics

101-102 Elementary Courses 101, fall; 102, spring. 6 credits each term. Prerequisite for Russian 102: 101 or equivalent. Intended for beginners or students placed by examination and those who wish to obtain qualification within two semesters or who wish to enter the 200-level sequence the following fall semester.

Lecs, T R 2:30 or T R 11:15; drills M-F 8, 9:05, 12:20, or 1:25. R. L. Leed and staff.

A thorough grounding is given in all the language skills: listening, speaking, reading, and writing. Language practice is in small groups. Lectures cover grammar, reading, and cultural information.

121-122 Elementary Course 121, fall; 122, spring. 4 credits each term. Prerequisite for Russian 122: 121 or equivalent. Intended for beginners or students placed by examination. Students who obtain a CEEB achievement score of 560 after Russian 121-122 attain qualification and may enter the 200-level sequence; otherwise Russian 123 is required for qualification.

Lec, T 2:30; drills, M W R F 8, or 2:30. Staff.

A thorough grounding is given in all the language skills: listening, speaking, reading, and writing. Language practice is in small groups. Lectures cover grammar, reading, and cultural information.

123 Continuing Russian Fall. 4 credits. Limited to students who have previously studied Russian and have a CEEB achievement score between 450 and 559. Satisfactory completion of Russian 123 fulfills the qualification portion of the language requirements.

M-F 3:35. Staff.

A pre-qualification course designed to prepare students for study at the 200 level. Passing this course is equivalent to qualification.

203-204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite: qualification in Russian. Prerequisite for Russian 204: 203 or equivalent.

Lec, R 1:25; drills; M W F 11:15, 1:25, or 3:35.

A. Nakhimovsky and staff.

Guided conversation, composition, reading, pronunciation, and grammar review, emphasizing the development of accurate and idiomatic expression in the language.

Note: Students placed in the 200-level courses also have the option of taking courses in introductory literature; see separate listings under Russian 200, 201 and 202 for descriptions of these courses, any of which may be taken concurrently with the 203-204 language courses described above. The introductory literature courses are offered by the respective literature departments and the 203-204 language courses by the Department of Modern Languages and Linguistics.

301-302 Advanced Russian Morphology and Syntax 301, fall; 302, spring. 4 credits each term.

102 Arts and Sciences

Prerequisite for Russian 301: 204 or equivalent.

Prerequisite for 302: 301.

Hours to be arranged. L. H. Babby.

This course is intended to increase the students' active command of Russian syntactic constructions and vocabulary.

303-304 Advanced Composition and

Conversation 303, fall; 304, spring. 4 credits each term. Prerequisite for Russian 303: 204 or equivalent; Prerequisite for Russian 304: 303 or equivalent. M W F 12:20. J. Bosky.

305-306 Directed Individual Study 305, fall; 306, spring. 2 credits. Prerequisite for Russian 305: 303-304 or equivalent. Prerequisite for Russian 306: 305.

Hours to be arranged. J. Bosky.

This is a practical language course on an advanced level and is designed to improve oral control of colloquial Russian.

401-402 History of the Russian Language 401, fall; 402, spring. 4 credits each term. Prerequisite for 401 is qualification in Russian. First term or equivalent is prerequisite to the second. Offered alternate years.

Hours to be arranged. L. H. Babby.

Phonological, morphological, and syntactic developments from Proto-Slavic to modern Russian.

[403-404 Linguistic Structure of Russian 403, fall; 404, spring. 4 credits each term. Prerequisite for Russian 403: qualification in Russian; Linguistics 101-102 recommended. Prerequisite for Russian 404: 403 or equivalent. Offered alternate years; not offered 1980-81.

L. H. Babby.

A synchronic study and analysis of Russian linguistic structure. Russian 403 deals primarily with phonology and morphology and 404 with syntax.

[601 Old Church Slavic Fall. 4 credits. This course is prerequisite to Russian 602. Offered alternate years. Not offered in 1980-81; next offered 1981-82.

E. W. Browne.

Grammar and reading of basic texts.]

[602 Old Russian Spring. 4 credits. Prerequisite: Russian 601. Offered alternate years. Not offered in 1980-81; next offered spring 1982.

L. H. Babby.

Structural analysis of Old Russian, and close reading of texts.]

700 Seminar in Slavic Linguistics Offered according to demand. Variable credit.

Staff.

Topics chosen according to the interests of staff and students.

Literature Courses

103 Freshman Seminar: Classics of Russian Thought and Literature Fall and spring, sec 1 only. 3 credits.

Sec 1, T R 2:30-3:45, staff. Sec 2, T R 12:20-1:35, staff.

Emphasis is on connections between Russian literary masterpieces and their historical background, rather than on considering them solely as artistic works. It covers both nineteenth- and twentieth-century works. Readings in translation of Dostoevsky, Solzhenitsyn, and others.

104 Freshman Seminar: Nineteenth-Century Russian Literary Masterpieces Fall and spring. 3 credits.

M W F 12:20. Staff.

Readings in translation of works by Dostoevsky, Tolstoy, and others; limited to nineteenth-century authors. A slightly more literary and less historical course than Russian 103.

105 Freshman Seminar: Twentieth-Century Russian Literary Masterpieces Spring. 3 credits.

M W F 9:05. Staff.

Readings in English of works by Babel, Pasternak, Solzhenitsyn, and others, studied against the background of Soviet social and political developments.

106 Freshman Seminar: Revolution in the Russian Arts Fall. 3 credits.

M W F 9:05. P. Carden.

A study of literature, the dance, film, and the theatre in Russia during the period of the two revolutions, 1905 and 1917. We will look at the way the arts became "revolutionary" in form as well as the way in which they embodied historical events of the revolutionary era.

109 Freshman Seminar: Literature and Society in Russia: 1840-1905 Fall.

M W F 11:15. Staff.

This course will explore the relationship between literature and society in Russia during the second half of the nineteenth century in order to give the student insight into both the period itself and events in the Soviet Union today. Using both historical texts and literary works, the course will place primary emphasis on the evolution of the split between educated society and the state and on the emergence of the idea of the writer as the conscience of a society in which other forms of political expression are repressed. Readings, all in English, will include novels and short stories by Turgenev, Dostoevsky, and Chekhov, as well as selected political treatises.

201-202 Readings in Russian Literature 201, fall; 202, spring. 3 credits. Prerequisite: qualification in Russian. Open to freshmen.

M W F 10:10. C. Emerson.

Completion of this series is the prerequisite for all 300- and 400-level literature courses in which the reading is done in Russian. Close reading of selected texts with attention to their stylistic features and their significance in Russian literary history.

307 Themes from Russian Culture Fall. 4 credits.

M W F 1:25. C. Emerson.

The development of Russian culture, art, music, intellectual life, and literature from their beginnings, with emphasis on the nineteenth century. Readings in translation.

308 Themes from Russian Culture Spring. 4 credits.

M W F 1:25. C. Emerson.

Continuation of 307, into the Soviet period and up to date. Readings in translation.

[314 Intellectual Background of Russian Literature, 1825-1930 Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

330 The Soviet Union: Politics, Economics, and Culture (also Economics and Government 330) Fall. 4 credits.

T R 2:30-3:45. M. Rush, G. Staller, and G. Gibian. Interdisciplinary survey of the USSR since the Revolution, with emphasis on contemporary developments.

331 Russian Poetry Fall. 4 credits. Prerequisites: Russian 202 or the equivalent and permission of the instructor. This course may be counted towards the 12 credits of Russian literature in the original for the Russian major.

M W F 2:30. N. Perlina.

A survey of Russian poetry with primary emphasis on analysis of individual poems by major poets.

332 Russian Theatre and Drama Spring. 4 credits.

M W F 9:05.

A survey of Russian theatre and drama from the beginning to the present time. In translation.

[335 Gogol Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

[350 Tolstoy and the Disciplines (also College Scholar 350) Spring. 4 credits. Not offered 1980-81; next offered 1981-82.]

367 The Russian Novel in Translation Fall. 4 credits. Also open to graduate students.

M W F 9:05. G. Gibian.

Study of the major Russian prose writers of the nineteenth and twentieth centuries. Novels and short stories by Gogol, Turgenev, Tolstoy, Dostoevsky, Chekhov, Solzhenitsyn, and others. There will be a special discussion section for those able to read Russian; students taking it will be able to count the course towards their Russian major as one with reading in the original.

[368 Soviet Literature in Translation Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

[369 Dostoevsky Fall. 4 credits. Not offered 1980-81; next offered 1981-82.

[373 Chekhov Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

379 The Russian Connection (also Comparative Literature 379) Spring. 4 credits.

M W F 10:10. P. Carden.

Russian literature in its European context. We will discuss great works of the Russian prose tradition in their reciprocal relations with European prose. Among the Russian works to be studied will be Pushkin's *Eugene Onegin*, Gogol's short stories, Tolstoy's *War and Peace*, Dostoevsky's *The Idiot*, and Chekhov's short stories. Among European authors whose work helped to shape or was in some degree shaped by Russian literature, we will look at Byron, Musset, Hoffmann, Stendhal, Sand, Maupassant, and Gide. In English translation.

393 Honors Essay Tutorial Fall or spring. 4 credits.

[415 Fairytale and Narrative (also Comparative Literature 415) Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

431 Russian Prose Fiction Spring. 4 credits.

Open to graduate students. Prerequisites: Russian 202 or the equivalent, and permission of instructor.

M W F 2:30. N. Perlina.

A study of selected shorter works by Gogol, Leskov, Saltykov, Shchedrin, Tolstoy, Dostoevsky, Babel, Chekhov, Platonov, and others. Read in the original.

[432 Pushkin Spring. 4 credits. Not offered 1980-81; next offered 1981-82.]

492 Supervised Reading in Russian Literature Fall or spring. 2-4 credits.

493 Tolstoy's War and Peace and Children's Stories: Thematic Invariance and Plot Structure Fall. 4 credits.

T R 11:15 plus one hour to be arranged.

A. Zholkovsky.

Structural analysis of works by Tolstoy and other authors. Readings in the original.

499 The Modern Arts in Russia, 1890-1925

Spring. 4 credits. The course may be counted towards the 12 credits of Russian literature in the original for the Russian major.

T R 2:30-3:45. P. Carden.

Russia's rich modern period examined through a variety of themes (the myth of the city, orientalism, surrealism, futurism, *commedia dell'arte*, etc.) that unified the arts in the period. Reading of literary classics in translation: Belyi's *Silver Dove* and *Petersburg*; Blok's *Puppet Theater* and narrative

poems; Khlebnikov's *Snake Train*; Mayakovsky's poems and plays; Mandelstam's *The Noise of Time*; Shklovsky's *Sentimental Journey*; Babel's *Red Cavalry*. An opportunity to do work in Russian will be provided for qualified Russian readers.

611 Supervised Reading and Research Fall or spring. 2-4 credits. Prerequisite: permission of the department.

[617 Russian Stylistics Fall. 4 credits. Conducted in Russian. Not offered 1980-81; next offered 1981-82.]

[618 Russian Stylistics Spring. 4 credits. Conducted in Russian. Not offered 1980-81; next offered 1981-82.]

[621 Russian Literature from the Beginnings to 1700 Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

[622 Eighteenth-Century Literature Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

[624 Russian Romanticism Spring. 4 credits. Not offered 1980-81; next offered 1981-82.]

625 Russian Realism Fall. 4 credits.
R 3:35-5:30. P. Carden.

A survey at an advanced level of developments in Russian literature and culture from 1840 to 1880. The emphasis will be on showing the relationship of individual works and authors to the cultural situation as a whole. The interpretations of historically oriented scholars like Lydia Ginzburg will be stressed. The relationships of the individual genres to the total literary economy will be a major theme. Authors to be considered include Herzen, Turgenev, Nekrasov, Ostrovsky, Grigoriev, Dostoevsky, Tiutchev, Fet, and Tolstoy. Readings in the original.

[671 Seminar in Nineteenth-Century Russian Literature Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

672 Seminar in Twentieth-Century Russian Literature Spring. 4 credits.
T 3:35-5:20.
Topic to be announced.

[701 Proseminar: Problems of Literary Criticism Fall. 4 credits. Not offered 1980-81; next offered 1981-82.]

Courses Offered in Translation

307 Themes from Russian Culture Fall. 4 credits.
M W F 1:25. C. Emerson.
The development of Russian culture, art, music, intellectual life, and literature from their beginnings, with emphasis on the nineteenth century. Readings in translation.

308 Themes from Russian Culture Spring. 4 credits.
M W F 1:25. C. Emerson.

Continuation of 307, into the Soviet period and up to date. Readings in translation.

330 The Soviet Union: Politics, Economics, and Culture (also Economics 330 and Government 330) Fall. 4 credits.
T R 2:30-3:45. M. Rush, G. Staller, and G. Gibian.
Interdisciplinary survey of the USSR since the Revolution, with emphasis on contemporary developments.

332 Russian Theatre and Drama Spring. 4 credits.
M W F 9:05.

A survey of Russian theatre and drama from the beginning to the present time. In translation.

367 The Russian Novel in Translation Fall. 4 credits. Open to graduate students.
M W F 9:05. G. Gibian.

Study of the major Russian prose writers of the nineteenth and twentieth centuries. Novels and short stories by Gogol, Turgenev, Tolstoy, Dostoevsky, Chekhov, Solzhenitsyn, and others.

379 The Russian Connection (also Comparative Literature 379) Spring. 4 credits.
M W F 10:10. P. Carden.

Russian literature in its European context. We will discuss great works of the Russian prose tradition in their reciprocal relations with European prose. Among the Russian works to be studied will be Pushkin's *Eugene Onegin*, Gogol's short stories, Tolstoy's *War and Peace*, Dostoevsky's *The Idiot*, and Chekhov's short stories. Among European authors whose work helped to shape or was in some degree shaped by Russian literature, we will look at Byron, Musset, Hoffmann, Stendhal, Sand, Maupassant, and Gide.

Related Courses in Other Departments

Soc Hum 429 Nature and Culture: The Window Motif in Pasternak Fall. 4 credits.
T 3:35-5:20. A. Zholkovsky.

A discussion of Boris Pasternak's poetic universe and the place occupied in it by "window" as a means of communication between the outer world (Nature) and the home (Culture). The emphasis will be on thematic invariance and on poetic subtleties. Comparisons with invariant motifs of other poets (Pushkin, Mandelstam, Okudzhava). There may be a section for Russian readers.

Sanskrit

See **Linguistics 641-642**.

Serbo-Croatian

[131-132 Elementary Course 131, fall; 132, spring. 3 credits each term. Prerequisite for Serbo-Croatian 132: 131 or equivalent. E. W. Browne. Not offered 1980-81.]

133-134 Elementary Course II 133, fall; 134, spring. 3 credits each term. Prerequisite for Serbo-Croatian 134: 133 or equivalent.
Hours to be arranged. E. W. Browne.

Sinhala (Sinhalese)

101-102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Sinhala 102: 101 or equivalent.

Hours to be arranged. J. W. Gair.
A semi-intensive course for beginners. A thorough grounding is given in all the language skills: listening, speaking, reading, and writing.

201-202 Sinhala Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Sinhala 201: qualification in Sinhala. Prerequisite for Sinhala 202: 201 or equivalent.
Hours to be arranged. J. W. Gair.

203-204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite for Sinhala 203: 202 or permission of instructor. Prerequisite for Sinhala 204: 203 or equivalent.
Hours to be arranged. J. W. Gair.

Related Courses

See also **Linguistics 341, 442, 631, 640, 641, 644**.

Spanish

Languages and Linguistics

121-122 Elementary Course 121, fall; 122, spring. 4 credits each term. Prerequisite for Spanish

122: 121. Special sections of this course are available for students with qualification in another language and there is one section for School of Hotel Administration students. Intended for beginners or students placed by examination. Students who obtain a CEEB achievement score of 560 after Spanish 121-122 attain qualification and may enter the 200-level sequence; otherwise Spanish 123 is required for qualification.

Fall and spring: lec, R 12:20, R 2:30, F 9:05, or F 11:15; drills, M-R 8, 9:05, 10:10, 11:15, 12:20, 1:25, 2:30, 3:35. Evening prelims: fall, 6:30 p.m. Oct. 7, Nov. 11; spring, 6:30 p.m. Mar. 10, April 7. C. Piera, J. Chambers, and staff.

A thorough grounding is given in all language skills: listening, speaking, reading, and writing. Language practice is in small groups. Lecture covers grammar, reading, and cultural information.

123 Continuing Spanish Fall or spring. 4 credits.

Limited to students who have previously studied Spanish and have a CEEB achievement score between 450 and 559. Satisfactory completion of Spanish 123 fulfills the qualification portion of the language requirement.

Fall: lec, M 11:15 or 1:25; drills, T-F 8, 9:05, 10:10, 11:15, 12:20, or 1:25. Spring: lec, M 1:25; drills, T-F 9:05, 10:10, or 12:20. Evening prelims: fall, 6:30 p.m. Oct. 7, Nov. 11; spring, 6:30 p.m. Mar. 10, April 7. Staff.

An all-skills course designed to prepare students for study at the 200-level.

203 Intermediate Composition and Conversation Fall or spring. 3 credits. Prerequisite: qualification in Spanish.

Fall: M W F 8, 9:05, 10:10, 11:15, 12:20, 1:25, or 2:30. Spring: M W F 8, 9:05, 10:10, 12:20, 1:25, or 2:30. Evening prelims: fall, 6:30 p.m. Oct. 9; spring, 6:30 p.m. Mar. 10. Staff.

Conversational grammar review with special attention to the development of accurate and idiomatic oral expression. Includes readings in contemporary Spanish prose and practice in writing.

204 Intermediate Composition and Conversation Fall or spring. 3 credits. Prerequisite: Spanish 203 or 212, or permission of instructor.

Fall: M W F 12:20 or 1:25. Spring: M W F 9:05, 10:10, 11:15, 12:20, or 1:25. Evening prelims: fall, 6:30 p.m. Oct. 28, spring, 6:30 p.m. Mar. 24. Staff.
Practice in conversation with emphasis on improving oral and written command of Spanish. Includes treatment of specific problems in grammar, expository writing, and readings in contemporary prose.

[212 Intermediate Reading and Composition Not offered 1980-81.]

303 Advanced Composition and Conversation Fall. 4 credits. Prerequisite: Spanish 204 or equivalent.

M W F 10:10. M. Suñer.

Advanced course in grammar, composition, and conversation. Special attention to the fundamental aspects of language styles through the analysis of contemporary spoken and written Spanish.

[304 Advanced Composition and Conversation Spring. 4 credits. Prerequisite: Spanish 303 or equivalent. Not offered 1980-81.]

310 Advanced Conversation and Pronunciation Spring. 2 credits. Prerequisite: Spanish 204 or equivalent.

M W F 9:05. Staff.

312 Advanced Composition Spring. 4 credits.

Prerequisite: Spanish 201 or 204 or 212 or equivalent. Required of Spanish majors.

M W F 12:30. E. Santí.

[401-402 History of the Spanish Language 401, fall; spring, 402. 4 credits each term. Prerequisites: Linguistics 101 and qualification in Spanish, or

104 Arts and Sciences

permission of the instructor. Not offered 1980–81, next offered 1981–82.

C. Piera.
A historical analysis of the phonology, morphology, syntax, and lexicon of the Spanish language.

407 Applied Linguistics: Spanish Fall. 4 credits. Prerequisites: qualification in Spanish and Linguistics 101, or permission of instructor.

M W F 9:05. C. Piera.
Designed to equip the teacher of Spanish with the ability to apply current linguistic theory to second-language learning.

408 The Grammatical Structure of Spanish Spring. 4 credits. Prerequisites: qualification in Spanish and Linguistics 101 or permission of instructor.

M W F 11:15. M. Suñer.
Survey of the salient morphological and syntactic characteristics of contemporary Spanish.

601 Hispanic Dialectology Fall. 4 credits.

M 2:30–4:30. M. Suñer.
Survey of dialects of Latin America and the Caribbean.

602 Linguistic Structure of Ibero-Romance Fall or spring according to demand. 4 credits.

M 2:30–4:30. C. Piera.
Phonological, Morphological, and syntactic characteristics of the languages and dialects of the Iberian Peninsula.

603 Contemporary Theories of Spanish Phonology Fall or spring according to demand. 4 credits.

Hours to be arranged. M. Suñer.
The sounds of Spanish analyzed according to Prague, structuralist, generative, and natural generative theory.

604 Contemporary Theories of Spanish Grammar Fall or spring according to demand. 4 credits.

Hours to be arranged. M. Suñer.
Selected readings of contemporary Spanish linguists who exemplify different theoretical points of view.

700 Seminar In Spanish Linguistics Fall or spring according to demand. Variable credit.

Hours to be arranged. Staff.
Topics in synchronic and diachronic Spanish linguistics.

Literature

105 Freshman Seminar: The Idea of Quest Spring. 3 credits.

M W F 11:15. M. Randel.
Discussion will explore the ways in which the idea of quest permeates Spanish life and thought in the period of Spain's imperial expansion. Readings in English translation will include texts of the conquistadors, the mystics, the picaresque, Cervantes, and honor plays.

107 Freshman Seminar: Parents and Children Fall. 3 credits.

M W F 9:05. E. Santf.
Literature thrives on the age-old conflict between parents and their children. We shall study literary treatments of this theme in ancient texts (*Oedipus*, *Electra*), baroque plays (*Hamlet*, *Truth Suspect*), and modern narrative (*Doña Perfecta*, *Fathers and Sons*). After reading a modern autobiography, Wolff's *The Duke of Deception*, we shall end the term with discussion of—and writing about—our own contemporary experience of the parent-child relationship.

201 Introduction to Hispanic Literature Fall or spring. 3 credits. Prerequisite: qualification in Spanish or permission of instructor. Conducted

mainly in Spanish. (The literature course that normally follows 201 is 315, 316, or 317.)

Fall: M W F 9:05, 12:20, 1:25 or T R 10:10–11:25; J. Tittler and staff. Spring: M W F 12:20, 1:25, or T R 12:20–1:35; staff.

An intermediate reading course in which texts from Spain and Spanish America are read and analyzed. The course is designed to increase reading and speaking facility in Spanish and to develop critical and analytical skills in the appreciation of literary texts.

[313 Spanish Civilization Not offered 1980–81.]

Note: Spanish 315, 316 and 317 can be taken in any order.

315 Readings in Sixteenth- and Seventeenth-Century Hispanic Literature Fall. 4 credits. Prerequisite: Spanish 201 or 4 years of high school Spanish or permission of instructor. This course is not a prerequisite for Spanish 316 or 317.

M W F 11:15. M. Randel.
Readings and discussion of representative texts of the period from both Spain and her colonies in the New World: Garcilaso de la Vega, *Lazarillo de Tormes*, San Juan de la Cruz, Cervantes, Lope de Vega, Calderón, and others.

316 Readings in Modern Spanish Literature Fall. 4 credits. Prerequisite: Spanish 201 or 4 years of high school Spanish or permission of instructor.

M W F 9:05 or 1:25. J. Kronik.
Readings and discussion of representative texts from Spain from the Romantic period to the present: Zorrilla, Galdós, Unamuno, Garcia Lorca, Celá, and others.

317 Readings in Spanish-American Literature Spring. 4 credits.

M W F 10:10. E. Santf.
Reading and discussion of representative texts of the nineteenth and twentieth centuries from Spanish America: Darío, Neruda, Borges, Paz, Garcia Márquez, Cortázar, and others.

[323 Latin American Civilization Not offered 1980–81.]

Note: The prerequisite for the following courses, unless otherwise indicated, is Spanish 315 or 316 or 317 or permission of instructor.

[332 Modern Drama in Spanish America Not offered 1980–81.]

333 The Spanish-American Short Story Fall. 4 credits.

T R 12:20–1:35. J. Tittler.
An investigation into the potential and limits of the short narrative genre as it has been practiced in Latin America in the twentieth century. In addition to the rich tradition of the *platense* writers (Lugones, Quiroga, Borges, Cortázar), the course will include authors from the Mexican school (Rulfo, Arreola) and others not primarily known for their stories (Cabrera Infante, García Márquez, Ortiz, Vargas Llosa). Readings, papers, lectures, and discussion in Spanish.

[336 Popular Culture in Contemporary Spanish-American Prose Fiction Not offered 1980–81.]

351 Spanish Drama of the Golden Age Spring. 4 credits.

M W F 1:25. M. Randel.
This course will stress the variety of Golden Age dramatic forms: *comedia*, *entremés*, tragedy, philosophical drama, *auto sacramental*. The plays will be discussed in the context of contemporary poetics. Readings will include works by Cervantes, Lope, Tirso, Alarcón, Calderón.

[355 The Picaresque Novel in a European Perspective (also Comparative Literature 355) Not offered 1980–81.]

[356 Spanish Lyric Poetry of the Golden Age Not offered 1980–81.]

[368 The Birth of the Novel in Spain: Toward Don Quixote Not offered 1980–81.]

[386 The Nineteenth-Century Spanish Novel Not offered 1980–81.]

[389 Form and Formlessness in the Novel of the Generation of 1898 Not offered 1980–81.]

[390 Sociology and Literature in Twentieth-Century Spain Spring. 4 credits. Conducted in Spanish.

T R 10:10–11:25. C. Arroyo.
This course will deal with the following topics and their interrelations: (1) Ethnopsychology at the beginning of the century: discussion of Unamuno's *intrahistoria*, Azorín's *Alma castellana*, regionalism, the distinction of a Latin race from the Germanic, Slavic, and Anglo-Saxon racial identities (with special attention devoted to Rodo and Ruben Dario); (2) Red and White: "pure art" between three wars, social and aesthetic ideas of the avant-garde; (3) Fascism: theoretical background and historical varieties; (4) Literature and society in Franco's Spain: a study of Lain Entralgo, Arangueren, and Julian Marias.

[391 The Post-Civil War Drama in Spain Not offered 1980–81.]

[395 The Post-Civil War Novel in Spain Not offered 1980–81.]

[398 Modern Hispanic Poetry Not offered 1980–81.]

419–420 Special Topics in Hispanic Literature 419, fall, 420, spring. 2–4 credits each term. Prerequisite: permission of instructor.

Staff.
Guided independent study of specific topics. For undergraduates interested in special problems not covered in courses.

429–430 Honors Work in Hispanic Literature 429, fall; 430, spring. 4 credits each term. Limited to seniors. Prerequisite: permission of instructor.

Staff.
439 Medieval Literature Fall. 4 credits. Conducted in Spanish.
R 2:30. C. Arroyo.
From *El Mio Cid* to *La Celestina*: a double approach: linguistic and ideological.

[441 Medieval Literature 1300–1508 Not offered 1980–81.]

[446 The Early Spanish Love Lyric: Origins to 1700 Not offered 1980–81.]

459 Being, God, Mind: Humanistic Revolutions from Plato and Vico (also Romance Studies 459 and Comparative Literature 359) Fall. 4 credits.

T R 10:10. C. Arroyo.
A study of the origins of scientific language: body and soul, matter and form, act and potentiality, being. A study of the ideological background of Western literatures: the conception of human personality and the presentation of characters, the conception of reality and the sense of literary structures. A study of the fusion of Greek thought and the Bible, and its reflection on the development of the ideas of freedom and equality in Western thought.

[461 The Rhetoric of Honor Not offered 1980–81.]

[466 Cervantes: *Don Quixote* Not offered 1980–81.]

[479 Colonial Spanish-American Literature: Sor Juana, Ruiz de Alarcón, Inca Garcilaso Not offered 1980–81.]

[481 Eighteenth- and Nineteenth-Century Spanish Drama Not offered 1980–81.]

489 Hispanic Romanticism Fall. 4 credits. Open to undergraduates and graduate students.

M W F 12:20. E. Santí.
A detailed study of the major texts of Hispanic Romanticism, its relationship to the broader European context and the critical issues they pose, including lyricism, epistemology, the self, politics, history, and modernity. Authors to be studied will include Cadalso, Zorrilla, Espronceda, Larra, Bécquer, Heredia, Isaacs, Mármol, Zorrilla de San Martín, and Villaverde.

491 The Theatre of García Lorca Fall. 4 credits.
M W F 2:30. J. Kronik.

A close study of the entire theatrical production of Federico García Lorca. The themes, dramatic technique, and mythical structure of his plays will be examined in the light of the Classical and Spanish traditions and of the contemporary European scene.

[496 Resonances of the Quixote in the Modern Hispanic Novel Not offered 1980–81.]

[629 Principles of Aesthetic and Literary Criticism Not offered 1980–81.]

639–640 Special Topics in Hispanic Literature 639, fall; 640, spring. 4 credits each term. To be taken by all new graduate students.
Staff.

667 Góngora and Quevedo Fall. 4 credits.
T 1:25–3:25. M. Randel.

A study of the verse of Góngora and Quevedo, and of Quevedo's *Sueños*. Readings in Golden Age and modern poetic theory. Discussion will explore the meanings of the terms *baroque*, *conceptismo*, *culteranismo*, and the relationship in the poetry itself of metaphysics, ethics, and aesthetics.

686 Seminar in Nineteenth-Century Spanish Literature: Galdós Spring. 4 credits.
W 2:30–4:30. J. Kronik.

The major "Novelas contemporáneas" of Galdós, from *Doña Perfecta* through *Fortunata y Jacinta* to *Misericordia*, will be discussed from various critical perspectives, both as independent narrative constructs and as reflections of their historical circumstances.

[689 Carlos Fuentes Not offered 1980–81.]

[699 Ortega Y Gasset's *The Dehumanization of Art and Ideas of the Novel (1925)* (also Comparative Literature 690) Not offered 1980–81.]

Related Courses in Other Departments

Don Juan and Faust (Comparative Literature 316)

Renaissance Public Theatre (Comparative Literature 452)

Swahili

See Africana Studies and Research Center, p. 126.

Tagalog

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Offered according to demand. Prerequisite: permission of instructor. Prerequisite for Tagalog 102: 101.
Hours to be arranged. J. U. Wolff.

201–202 Tagalog Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Tagalog 201: 102 or equivalent. Prerequisite for Tagalog 202: 201 or equivalent.

Hours to be arranged. J. U. Wolff.

300 Linguistic Structure of Tagalog Fall or spring. 4 credits. Prerequisite: Linguistics 101.
Hours to be arranged. J. U. Wolff.

Tamil

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Offered according to demand. Prerequisite for Tamil 102: 101 or equivalent.
J. W. Gair.

Telugu

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Telugu 102: 101 or equivalent.
Hours to be arranged. G. Kelley.

201–202 Telugu Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Telugu 201: qualification in Telugu. Prerequisite for Telugu 202: 201 or equivalent.

Hours to be arranged. G. Kelley.

See also **Linguistics 341, 440, 646.**

Thai

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for Thai 102: 101 or equivalent. Intended for beginners or students placed by examination.

Lecs, T R 11:15; drills, M–F 10:10. R. B. Jones.
A thorough grounding is given in all the language skills: listening, speaking, reading, and writing.

201–202 Thai Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Thai 201: qualification in Thai. Prerequisite for Thai 202: 201 or equivalent.
M W F 2:30. R. B. Jones.

203–204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite for Thai 203: qualification in Thai. Prerequisite for Thai 204: 203.
Hours to be arranged. R. B. Jones.

301–302 Advanced Thai 301, fall; 302, spring. 4 credits each term. Prerequisite: Thai 201–202, or equivalent.
M W F 1:25. R. B. Jones.

Selected readings in Thai writings in various fields.

303–304 Thai Literature 303, fall; 304, spring. 4 credits each term. Prerequisite: Thai 301–302 or the equivalent.

Hours to be arranged. R. B. Jones.
Reading of significant novels, short stories, and poetry written since 1850.

401–402 Directed Individual Study 401, fall; 402, spring. 4 credits each term. For advanced students. Prerequisite: permission of instructor.
Hours to be arranged. R. B. Jones.

Ukrainian

[131–132 Elementary Course 131, fall; 132, spring. 3 credits each term. Prerequisite for Ukrainian 132: 131 or equivalent. E. W. Browne. Not offered 1980–81; next offered 1981–82.]

Vietnamese

101–102 Elementary Course 101, fall; 102, spring. 6 credits each term. Prerequisite for

Vietnamese 102: 101 or equivalent. Intended for beginners or students placed by examination.

Lecs, T R 10:10; drills, M–F 11:15. F. E. Huffman.
A thorough grounding is given in all the language skills: listening, speaking, reading, and writing.

201–202 Vietnamese Reading 201, fall; 202, spring. 3 credits each term. Prerequisite for Vietnamese 201: qualification in Vietnamese. Prerequisite for Vietnamese 202: 201.
Hours to be arranged. F. E. Huffman.

203–204 Composition and Conversation 203, fall; 204, spring. 3 credits each term. Prerequisite for Vietnamese 203: qualification in Vietnamese. Prerequisite for Vietnamese 204: 203.
Hours to be arranged. F. E. Huffman.

301–302 Advanced Vietnamese 301, fall; 302, spring. 4 credits each term. Prerequisite: Vietnamese 201–202 or equivalent.
Hours to be arranged. F. E. Huffman.

303–304 Vietnamese Literature 303, fall; 304, spring. 4 credits each term. Prerequisite: Vietnamese 301–302 or equivalent.
Hours to be arranged. F. E. Huffman.
Reading of selections from contemporary literature.

401–402 Directed Individual Study 401, fall; 402, spring. 4 credits each term. Prerequisite: permission of instructor. Intended for advanced students.
Hours to be arranged. F. E. Huffman.

Yiddish

131–132 Elementary Yiddish 131, fall; 132, spring. 4 credits each term.

M W F 10:10; plus 1 hour in language lab and additional hours to be arranged through the term.
S. Slotnick.

A course for beginners. The purpose of the course is to provide a thorough grounding in all language skills: listening, speaking, reading, writing. Three hours will be devoted to language practice, grammar explanation, reading, and cultural information. A fourth hour will be spent in the language lab. A supplemental series of films in Yiddish will form part of the curriculum. This course will satisfy the qualification portion of the language requirement if the student earns a grade of B– or better.

Music

Freshman Seminars

111 Freshman Seminar in Music Fall or spring. 3 credits. Each section limited to 20 students. No prerequisites; students do not need to have studied music.

Fall: sec 1: M W F 10:10, P. Horsley; sec 2: M W F 11:15, S. Ward; sec 3: M W F 12:20, C. Greenspan.
Spring: sec 1: M W F 10:10, P. Horsley; sec 2: M W F 11:15, S. Ward.

Ways of listening, thinking, talking, and writing about music. Non-Western and popular music are considered, as well as Western "classical" music. Student performances in class are welcome.

114 Contemporary Music Spring. 3 credits.

Limited to 20 students. No prerequisites; students do not need to have studied music.

M W F 9:05; J. Spitzer.
Listening, discussing, and writing about music which has been newly created in several different traditions, including rock, avant-garde "classical" music, and country and western. Readings in music criticism, and a good deal of writing of it. Students will also have the opportunity to investigate one style of their own choosing. When possible, we will listen to performances of new music in the Ithaca area.

Music Theory

101 Introduction to the Musics of the World

Spring. 3 credits.

T R 10:10; disc to be arranged. M. Hatch.

The elements of music as they present themselves in folk, popular, and art musics, both in the West and in other cultural areas. Topics include pitch, scale, rhythm, meter, timbre, and forms of instrumental and vocal play with sound. Listening to and analyzing live and recorded musics.

141–142 Rudiments of Music Theory 141, fall; 142, spring. 3 credits each term. Some familiarity with music is desirable. Prerequisite for Music 142: 141 with grade of B– or better. Music 142 is limited to 50 students. May not be counted toward the requirements for the major in music.

M W 9:05; disc to be arranged. D. M. Randel and staff.

An elementary, self-contained introduction to music theory, emphasizing fundamental musical techniques, theoretical concepts, and their application. Music 141: ear training; notation, pitch, meter; intervals, scales, triads; basic concepts of tonality; extensive listening to music in various styles; analysis of representative works of Bach, Mozart, Beethoven, and Debussy. 142: systematic introduction to counterpoint; original composition of four-part chorales or short keyboard pieces.

151–152 Elementary Theory 151, fall; 152, spring. 4 credits each term. Prerequisites for Music 151: a knowledge of the rudiments of music and some ability to perform. Prerequisite for Music 152: 151 or equivalent. Intended for students expecting to major in music and other qualified students. Required for admission to the music major. Students intending to major in music under Option II should enroll in Music 151–152 during their freshman year. Registration for this course is provisional depending upon the demonstration of adequate background and ability in proficiency tests given on the first two days of the term.

M W F 9:05; 2-hour disc to be arranged. S. Stuckey and staff.

Detailed study of the fundamental elements of tonal music; rhythm, scales, intervals, triads; melodic movement, two-part counterpoint, harmonic progression in the chorale style of J. S. Bach; and introduction to analysis of small forms. Drill in aural discrimination, sight singing, keyboard harmony, and elementary figured bass; rhythmic, melodic, and harmonic dictation; and score reading.

251–252 Intermediate Theory 251, fall; 252, spring. 4 credits each term. Prerequisite for Music 251: 152 with a C or better. Prerequisite for Music 252: 251.

M W F 10:10, R 1:25–3. C. A. Barbera.

Continuation of study and writing in the chorale style of J. S. Bach, concentrating on seventh chords; also study of secondary dominants, modulation, augmented sixth chords, and the Neapolitan. Introduction to writing small forms using piano textures, combined with analysis of larger forms and sonatas. Analysis and writing of two- and three-voice chorale preludes. Ear training, keyboard harmony, and score reading.

339 Ear Training and Sight Singing Fall. 1 credit. Limited to students who are participating in a University musical ensemble. Prerequisite: permission of instructor.

T 3:35. T. A. Sokol.

A practical course designed to improve the student's conception of melody and rhythm and to help sight-reading ability. Progressive class exercises in intervals, rhythms, melodies, and counterpoints.

351 Advanced Theory Fall. 4 credits. Prerequisite: Music 252 with a grade of C or better, or the equivalent.

M W F 9:05. E. Murray.

Inventions, chromatic harmony, analysis of larger forms and nineteenth-century music, ear training, score reading, and advanced keyboard studies including figured bass.

352 Advanced Theory Spring. 4 credits.

Prerequisite: Music 351 with a grade of C or the equivalent.

M W F 9:05. E. Murray.

Introduction to some techniques of composers from 1900 to 1950, including expanded tonal resources, atonality, and new approaches to form and rhythm. Analysis of representative smaller works by Bartók, Hindemith, Schoenberg, Stravinsky, Webern, and some American composers. Writing assignments in various styles.

[451 Modal Counterpoint and Analysis Spring. 4 credits. Prerequisite: Music 352 with a grade of C or better, or the equivalent. Not offered 1980–81.]

[454 Fugue Spring. 4 credits. Prerequisite: Music 352 with a grade of C or better, or the equivalent. Not offered 1980–81.]

456 Orchestration Spring. 4 credits. Prerequisite: Music 352 or equivalent.

T 10:10–12:25. K. Husa.

A study of the instruments of the orchestra and their use in representative works from 1700 to the present. Scoring for various instrumental groups including large orchestra. Students will occasionally attend rehearsals of Cornell musical organizations and ensembles.

[457 Analysis and Composition (Proseminar)

Fall. 4 credits. Prerequisite: Music 352 or permission of instructor. T R 10:10; 1 additional hour to be arranged. Not offered 1980–81.]

460 Electronic Music Composition Fall. 3 credits. Limited to 10 students. Prerequisites: Music 252 and permission of instructor.

M 1:25–4:25. M. W. Stith and staff.

The basic techniques of writing music by electronic means, including musique concrète, tape recorder techniques such as rerecording and splicing, and the use of synthesizers. Works by electronic music composers and readings from current literature are studied. Students are allotted studio time to carry out class projects and assignments.

[462 Orchestral Conducting Spring. 2 credits. Prerequisite: Music 352. T 10:10–12:05. K. Husa. Not offered 1980–81.]

[463 Choral Conducting Spring. 2 credits. Prerequisite: Music 252 or permission of instructor. F 2:30–4:10. T. A. Sokol. Not offered 1980–81.]

[464 Choral Style Spring. 2 credits. Prerequisite: Music 352 or permission of instructor. F 2:30–4:10. T. A. Sokol. Not offered 1980–81.]

Music History

213 The Art of Music Fall. 3 credits.

T R 11:15; 1-hour disc to be arranged. W. W. Austin. Explorations, chiefly through study of phonograph records, designed to speed up the continuing development of various independent tastes. Each student chooses individually what to study from among all the diverse styles of music; instructors help refine these choices through the term; everyone studies a few assigned works, especially by J. S. Bach and Bob Dylan, to provide a common focus for tracing and discussing historical continuities and changes. Diversity is represented in the lectures by live performances as well as recordings. The lectures are organized to survey melody, rhythms, chords, and musical forms, suggesting ways to study any music—beyond the course as well as within it.

214 Opera Spring. 3 credits.

T R 11:15. C. Greenspan.

A historical survey of the forms and conventions of opera. The shifting balance between musical and dramatic factors; the changing emphasis on the contributions of the librettist, the composer, and the performer. Emphasis on works of Monteverdi, Handel, Mozart, Verdi, Wagner, Debussy, and Berg.

[218 Chopin, Chaikovsky, Musorgskii Spring. 3 credits. Students may wish to register concurrently in Music 219. T R 11:15; disc to be arranged. W. W. Austin, G. Gibian, and staff. Not offered 1980–81.]

[219 Chopin, Chaikovsky, Musorgskii Spring. 1 credit. Prerequisite: reading knowledge of Russian. Limited to students concurrently enrolled in Music 218. Seminar to be arranged. Not offered 1980–81.]

220 History of Jazz Spring. 3 credits.

M W F 11:15. C. A. Barbera.

A study of the origins and development of jazz from around the turn of the century to the present. Special emphasis is placed on how the melodies, timbre, and rhythms of Afro-American sacred and secular song, the harmonies of American popular song (Tin Pan Alley), and the timbres and meter of European band instruments merge in jazz. Several jazz musicians will be discussed, including Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis, Lee Konitz, and John Coltrane. The first two weeks of the course are devoted to fundamental musical characteristics of jazz.

303 The Organ and Its Literature Fall. 4 credits. Prerequisite: Music 152, or permission of instructor.

M W F 11:15. D. R. M. Paterson.

Historical, technical, and analytical survey of the history of the organ, its construction and design, and its most significant repertory.

[317 Music and Poetry in France: Late Middle Ages and Renaissance (also French 617) Fall. 4 credits. D. M. Randel, E. P. Morris. Not offered 1980–81.]

[318 Baroque Instrumental Music Fall. 3 credits. Prerequisite: a course in music history or music theory, or permission of instructor. Not offered 1980–81.]

381 Monteverdi to Mozart Fall. 4 credits. Prerequisite: Music 152 or permission of instructor.

M W F 1:25–2:15. M. A. Keller.

The history of music from the emergence of baroque style around 1600 through the classical period at the end of the eighteenth century. Emphasis on works of Monteverdi, Schütz, Purcell, J. S. Bach, Händel, Haydn, and Mozart.

382 Beethoven to Debussy Spring. 4 credits. Prerequisite: Music 152 or ability to read scores at the keyboard or to translate and sing a French or German folk song.

M W F 2:30. W. W. Austin.

The history of musical styles from Beethoven's time through the beginning of the twentieth century. Emphasis on works of Beethoven, Schubert, Schumann, Chopin, Verdi, Wagner, Brahms, Mahler, and Debussy.

385 Schoenberg, Bartók and Stravinsky Fall. 4 credits. Prerequisite: ability to play (on any instrument) a piece from Bartók's *Mikrokosmos*, vol. 1.

M W 11:15. W. W. Austin.

A survey of the three composers' works, their interactions with each other, and their connections with some of the literary, artistic, political, and religious concerns of their time.

[387 Mozart, His Life, Works, and Times (also German 387) Fall. 4 credits. N. Zaslav, S. L. Gilman. Not offered 1980–81.]

426 Poetry and Music In the English Renaissance (also English 426) Spring. 4 credits.

W F 12:20–1:35. E. Murray and B. Rosecrance.
A survey of English poems and their musical settings from late medieval times to the early seventeenth century, with emphasis on the interrelations of music and text. Some attention will also be given to historical background and social context. The course will consider selected medieval lyrics, the words and music of early Tudor songbooks, related European settings and texts, English madrigal composers, and the ayre. Besides anonymous settings and lyrics, settings by Fayrfax, Henry VIII, Tallis, Byrd, Gibbons, Morley, Weelkes, Wilbye, Dowland, and Campion; lyrics by Wyatt, Vaux, Surrey, Raleigh, Spenser, Sidney, Shakespeare, Campion, and Donne will be represented. No theoretical training in music is assumed.

481 Music in Western Europe to Josquin Des Pres Fall. 4 credits. Prerequisite: Music 381–382 or permission of instructor.

T R 10:10–11:25. C. A. Barbera.
An introduction to the monophonic chant of the Roman Church, medieval musical theory, notation, and the origins and development of polyphonic art music in Western civilization up to the threshold of the high Renaissance.

[482 Josquin Des Pres to Monteverdi Spring. 4 credits. Prerequisite: Music 381–382 or permission of instructor. M W F 11:15. C. A. Barbera. Not offered 1980–81.]**Independent Study**

301–302 Independent Study in Music 301, fall; 302, spring. Prerequisite: departmental approval. Hours and credits to be arranged. Staff.

The Honors Program

401–402 Honors in Music 401, fall; 402, spring. 4 credits each term. Limited to honors candidates in their senior year. Staff.

Musical Performance

321–322 Individual Instruction in Voice, Organ, Harpsichord, Piano, and String, Woodwind, and Brass Instruments Prerequisite: successful audition with instructor during registration period. Music 321 is not a prerequisite to 322.

Without credit: basic fee for one half-hour lesson weekly during one term, \$90; fees for a practice schedule of six hours weekly during one term: \$45 for the use of a pipe organ, \$22 for a practice room with piano, \$7 for a practice room without piano.

For credit: one one-hour lesson weekly (or two half-hour lessons) and a double practice schedule earn 2 credits each term, provided the student has earned, or is earning, at least 3 credits in courses in music history or music theory for every 4 credits in Music 321–322. The basic fees are multiplied by one and one-half (lesson fee becomes \$135; practice fees \$67, \$33, or \$10).

All fees are *nonrefundable* once classes begin, even if registration is subsequently cancelled by the student. A student may register for this course in successive years. Members of Cornell musical organizations and ensembles receive scholarships of one-half of their lesson fees. The Department of Music offers a limited number of additional partial scholarships for lesson fees for cases of both need and special merit.

Instruments not taught at Cornell may, under certain conditions, be studied for credit with outside teachers who have been approved by the department. For information inquire at the department office.

321a–322a Individual Instruction in Voice 321a, fall; 322a, spring. 2 credits each term. Hours to be arranged. B. Troxell.

321b–322b Individual Instruction in Organ 321b, fall; 322b, spring. 2 credits each term. Hours to be arranged. D. R. M. Paterson.

321c–322c Individual Instruction in Piano 321c, fall; 322c, spring. 2 credits each term. Hours to be arranged. M. Bilson and staff. Students required to take 321c–322c in order to pass the Department of Music's piano examination may enroll without paying the lesson fee.

321d–322d Individual Instruction in Harpsichord 321d, fall; 322d, spring. 2 credits each term. Hours to be arranged. D. R. M. Paterson.

321e–322e Individual Instruction in Violin or Viola 321e, fall; 322e, spring. 2 credits each term. Hours to be arranged. S. Monosoff.

321f–322f Individual Instruction in Cello or Viola da Gamba 321f, fall; 322f, spring. 2 credits each term. Hours to be arranged. J. Hsu.

321g–322g Individual Instruction in Brass Instruments 321g, fall; 322g, spring. 2 credits each term. Hours to be arranged. M. W. Stith.

391–392 Advanced Individual Instruction 391, fall; 392, spring. 4 credits each term. Open only to juniors and seniors who are majoring under Option II with concentration in performance, and to graduate students. Music 391 is not a prerequisite to 392. Hours to be arranged. Staff.

Musical Organizations and Ensembles

Students may participate in musical organizations and ensembles throughout the year. Permission of the instructor is required, and admission is by audition only, except in the Sage Chapel Choir and the Cornell Gamelan Ensemble. Registration is permitted in two of these courses simultaneously and students may register in successive years, but no student may earn more than 6 credits in these courses. Membership in these musical organizations and ensembles is also open to qualified students who wish to participate without earning credit.

331–332 Sage Chapel Choir 1 credit. No audition for admission. M 7–8:30 p.m., R 7–8:30 p.m., Sunday 9:30 a.m. D. R. M. Paterson.

333–334 Cornell Chorus or Glee Club 1 credit. Prerequisite: permission of instructor. Chorus: W 7:15–9:15 p.m., plus 1½ hours to be arranged. Glee Club: T 7:15–9:15 p.m., plus 1½ hours to be arranged. T. A. Sokol.

335–336 Cornell Orchestra 1 credit. Prerequisite: permission of the instructor. Chamber orchestra limited to more experienced players. Rehearsals for the Cornell Symphony Orchestra: full orchestra, W 7:30–10 p.m.; sectional rehearsals, alternate T or R 7:30–10 p.m. Rehearsals for the Cornell Chamber Orchestra, R 7:30–10 p.m. E. Murray.

337–338 University Bands 1 credit. Symphonic band: fall, M 7:30–9:30 p.m. and W 4:40–5:45 p.m.; spring, T 4:30–5:45 p.m. and W 4:30–5:45 p.m. Wind ensemble: spring only, M 7:30–9:30 p.m. and R 4:30–5:45 p.m. M. W. Stith. Students interested in participating in the Big Red Marching Band may inquire at the Department of Athletics, Teagle Hall.

441–442 Chamber Music Ensemble 1 credit. Prerequisite: permission of instructor.

S. Monosoff and staff. Study and performance of chamber music literature; string and wind groups; piano trios and quartets, trio sonatas, etc. Emphasis on musical problems, with some practice in sight reading.

443–444 Chamber Singers 1 credit. Prerequisite: permission of instructor. F 4:30–6. T. A. Sokol. Study and performance of selected vocal music for small choir.

445–446 Cornell Gamelan Ensemble 1 credit. No previous knowledge of music notation or experience in music performance necessary. Full ensemble: R 7:30–10 p.m. Small group lessons: M W F 12:20–1:10. Attendance at all full rehearsals and one small group lesson per week required for credit. M. Hatch. Basic performance techniques and theories of central Javanese gamelan. Tape recordings of gamelan and elementary cypher notation are provided.

447–448 Collegium Musicum 1 credit. Prerequisite: permission of instructor. Hours to be arranged. J. Hsu. Study and performance of medieval, Renaissance, and baroque vocal and instrumental music, with recorders, crumhorns, sackbuts, viols, shawms, organ, harpsichord, and other early instruments.

Graduate Courses

Open to qualified undergraduates with permission of the instructor.

[617 Music and Poetry In France: Late Middle Ages and Renaissance (also Music 317 and French 617)] Fall. 4 credits. D. M. Randel, E. P. Morris. Not offered 1980–81.]

651 Twentieth-Century Classics Spring. 4 credits. Prerequisite: Music 352 or permission of instructor. W 10:10–12:05. R. M. Palmer. A general analysis of Bartók's string quartets 2, 4, and 6, with a detailed examination of tonality and rhythm. Live performance of the works is an integral part of the course.

652 Rhythms Spring. 4 credits. Open to students in languages, psychology, philosophy, dance, anthropology, etc., who receive permission of instructor. R 2:30–4:25. W. W. Austin. Comparative studies of rhythmic schemes and performances in various styles.

[653 Analysis of Structure and Function in Tonal Music Spring. 4 credits. Not offered 1980–81.]

657–658 Composition 657, fall; 658, spring. 4 credits. W 2:30–4:25. S. Stucky.

659–660 Composition 659, fall; 660, spring. 4 credits. 659: not offered 1980–81. 660: T 2:30–4:25. K. Husa.

[681 Introduction to Research and Bibliography Fall. 4 credits. Prerequisites: reading knowledge of French and German, and familiarity with music theory and general music history. M 1:25–4:25. M. A. Keller. Not offered 1980–81.]

682 Seminar on Richard Wagner (also German 682) Spring. 4 credits. M 1:25–4:25. J. Webster and staff. An analysis of Wagner's music-dramas, with special reference to *Tristan und Isolde* and *Die Meistersinger von Nürnberg*. Attention will be paid to the literary and musical context of Wagner's works and to the relations between his theories and his practice.

684 Seminar in Renaissance Music Fall. 4 credits.

F 1:25–4:25. D. M. Randel.
The *chanson* from Dufay to Josquin.

685 Schoenberg, Bartók, and Stravinsky Fall.

4 credits. Prerequisites: ability to play Stravinsky's *Pieces for the Five Fingers*, and reading knowledge of one relevant foreign language—French, German, Russian, or Hungarian.
M W F 11:15. W. W. Austin.

686 Beethoven Fall. 4 credits.

T 1:25–4:25. J. Webster.
The crystallization of Beethoven's first-period style.

[687 Mozart: His Life, Works, and Times (also German 757)] Fall. 4 credits. N. Zaslav, S. L. Gilman. Not offered 1980–81.]

688 Music of the Grand Siècle Spring. 4 credits.

T 2:30–4:25. N. Zaslav.
In 1981 the seminar will be devoted to the music of Rameau.

[689 Haydn Fall. 4 credits. J. Webster. Not offered 1980–81.]

691–692 Performance Practice 691, fall; 692, spring. 4 credits each term.

691: T 1:25–4:00; C. Greenspan. 692: W 2:30–4:25; N. Zaslav.
691: Nineteenth-century performance traditions and their transmission: the role of the interpreter; the interrelation of interpreter and composer; the problem of the composer-interpreter. Use of reviews, teaching manuals, recollections, editions, and recordings.
692: The study of early instruments.

697–698 Independent Study and Research

Hours and credits to be arranged. Staff.

780 Introduction to Ethnomusicology Fall. 4 credits.

M 2:00–4:25. M. Hatch.
Major aspects of ethnomusicological research, exemplified in the study of two musical cultures: Karnatic (South Indian) and Javanese. Problems, theories, and methods, especially those affecting transcription, analysis, and fieldwork. Translation and transcription of words and tones in the literature on music from past to present.

[783 Seminar in Medieval Music Fall. 4 credits. C. A. Barbera. Not offered 1980–81.]

784 Seminar in Medieval Music Spring. 4 credits.

F 2–4:30. D. M. Randel.
The secular works of Guillaume de Machaut.

785–786 History of Music Theory 785, fall; 786, spring. 4 credits each term.

785: not offered 1980–81. 786: R 1:25–4:25; C. A. Barbera.
The musical theories of the Greeks and their influence on Western medieval theory.

[787–788 Debussy to Boulez 787, fall; 788, spring. 4 credits each term. W. W. Austin. Not offered 1980–81.]

[789 Liturgical Chant in the West Fall. 4 credits. Not offered 1980–81.]

completion of NES 102 fulfills the qualification portion of the language requirement.

Sec 1, M–F 9:05; sec 2, M–F 10:10; sec 3, M–F 11:15; sec 4, M–F 1:25. N. Scharf.

The fundamentals of modern Israeli Hebrew, emphasizing reading, writing, listening, and speaking skills. Small groups led by native Hebrew speakers are supplemented with work at the language laboratory.

103–104 Elementary Classical Hebrew 103, fall; 104, spring. 4 credits each term. Prerequisite for 104: 103 or equivalent with permission of instructor.

M W F 11:15. M. Collins.
A thorough introduction to the grammar and syntax of biblical Hebrew. Stress is placed on acquisition of basic language structures and vocabulary and on fluency in reading and translating. This course provides the basis for understanding the role of biblical Hebrew in shaping Modern Hebrew and for the study of the historical development of Hebrew.

201–202 Intermediate Modern Hebrew I and II

201, fall; 202, spring. 3 credits each term. Each section limited to 15 students. Prerequisite for NES 201: 102 or permission of instructor. Prerequisite for NES 202: 201 or permission of instructor. Satisfactory completion of NES 202 fulfills the proficiency portion of the language requirement.

Sec 1, M W F 9:05; sec 2, M W F 11:15. E. Kadar.
Second-year modern Israeli Hebrew. Continued development of reading, writing, listening, and speaking skills. Review of grammar; readings from contemporary Israeli prose and poetry; guided conversation and composition. Small groups led by native Hebrew speakers are supplemented with work at the language laboratory.

[231–232 Readings in Classical Hebrew Literature 231, fall; 232, spring. 3 credits each term. Not offered 1980–81.]

[301–302 Advanced Modern Hebrew I and II 301, fall; 302, spring. 4 credits each term. Not offered 1980–81.]

303 Independent Study Fall or spring. Variable credit. Prerequisite: permission of instructor. Staff.

Arabic

111–112 Elementary Arabic 111, fall; 112, spring. 6 credits each term. Limited to 15 students.

Prerequisite for NES 112: 111 or permission of instructor.
M–F 9:05. D. S. Powers.
An introduction to the fundamentals of classical and modern standard Arabic. Reading, writing, listening, and speaking skills are stressed. Short selections for the Qur'an, classical literature, and modern literature are studied.

211–212 Intermediate Arabic 211, fall; 212, spring. 3 credits each term. Prerequisite for NES 211: one year of Arabic or permission of instructor. Prerequisite for NES 212: 211 or permission of instructor.

M W F 12:20. P. D. Molan.
The grammar of classical and modern standard Arabic is stressed. Extensive readings are selected from the Qur'an, the classical period, and the modern period.

311 Advanced Arabic Fall. 4 credits. Prerequisite: two years of Arabic or permission of instructor.
Hours to be arranged. D. S. Powers.
Readings in selected literary and historical texts.

[312 Advanced Arabic Spring. 4 credits. Not offered 1980–81.]

351 Independent Study Fall or spring. Variable credit. Prerequisite: permission of instructor. Staff.

Akkadian

[323–324 Elementary Akkadian 323, fall; 324, spring. 4 credits each term. Not offered 1980–81.]

[325 Readings in Akkadian Texts Fall or spring. 3 credits. Not offered 1980–81.]

Aramaic

[327 Aramaic Spring. 4 credits. Not offered 1980–81.]

Ugaritic

[328 Ugaritic Fall. 3 credits. Not offered 1980–81.]

Comparative Semitic Linguistics

[329 Introduction to Comparative Semitic Linguistics Spring. 4 credits. Not offered 1980–81.]

Ancient Near Eastern Literature

[282 Ancient Near Eastern Literature (also Comparative Literature 226)] Spring. 4 credits. Not offered 1980–81.]

384 Folklore in the Ancient Near East Spring. 4 credits.

M W F 11:15. R. F. Falkowitz.
Selected readings and analyses of literary sources in translation from Egypt, Ugarit (Canaanite), Anatolia (Hittite), Mesopotamia (Sumerian and Babylonian), and Israel (Hebrew Bible). Introduction to folkloric methodology with particular emphasis on comparative motifs from the various literatures of the ancient world, and on the place of ancient Near Eastern literature in the context of cultures to both its east and west.

Biblical Literature

[221 Literature of Ancient Israel I Fall. 3 credits. Not offered 1980–81.]

[222 Literature of Ancient Israel II: Bible, Dead Sea Scrolls, Apocalyptic Literature Spring. 3 credits. Not offered 1980–81.]

225 Freshman Seminar in Biblical Literature: Heroes and Heroines of the Bible Spring.

3 credits. May be used toward fulfillment of the distribution requirements in the humanities. May also be used toward completion of a concentration in Jewish Studies.
M W F 9:05. M. Collins.

A study of the characterization of famous figures in ancient Israel known for their accomplishments as soldiers, sages, kings, queens, and courtiers. The focus is on the significance and portrayal of personalities such as Abraham, David, and Ruth.

[231–232 Readings in Classical Hebrew Literature 231, fall; 232, spring. 3 credits each term. Not offered 1980–81; next offered 1981–82.]

322 Undergraduate Seminar in Biblical Literature: Prophecy in Ancient Israel Spring. 4 credits.

M W F 12:20. M. Collins.
A study of the speeches and predictions of ancient Israel's famous rhetoricians (such as Amos, Hosea, Isaiah, Jeremiah, Ezekiel). The focus is on major issues which the prophets address: the human state and divine rule, man and society, freedom and responsibility, war and peace, exile and restoration.

326 Independent Study Fall or spring. Variable credit. Prerequisite: permission of instructor.
M. Collins.

Near Eastern Studies

Hebrew

101–102 Elementary Modern Hebrew I and II 101, fall; 102, spring. 6 credits each term. Each section limited to 15 students. Prerequisite for NES 102: 101 or permission of instructor. Satisfactory

Rabbinic Literature

[333 The Historical Development of Rabbinic Literature] Spring. 4 credits. Not offered 1980–81.]

334 Biblical Interpretation in Rabbinic Literature Fall. 4 credits.

M W F 12:20. M. Collins.

A general introduction to modes of interpreting the Hebrew Bible from the sixth century B.C.E. through the early medieval period. Readings are in English translation from the Dead Sea Scrolls, Philo and Josephus, Rabbinic *midrashim*, Rashi, and others. The background of each period and text, the process of the development of biblical interpretation, and its importance to different communities is discussed.

339 Independent Study Fall or spring. Variable credit. Prerequisite: permission of instructor. Staff.

Modern Hebrew Literature

[260–261 Modern Hebrew Literature in English Translation] 260, fall; 261, spring. 4 credits each term. Not offered 1980–81.]

[361–362 Seminar in Modern Hebrew Literature: The National Renaissance] 361, fall; 362, spring. 4 credits each term. Not offered 1980–81.]

[363–364 Seminar in Modern Hebrew Literature: The Enlightenment] 363, fall; 364, spring. 4 credits each term. Not offered 1980–81.]

[366 Seminar in Modern Hebrew Literature: The Israeli Short Story] Fall. 4 credits. Not offered 1980–81.]

367 Seminar in Modern Hebrew Literature: The Early Hebrew Novel Spring. 4 credits.

T R 2:30–3:45. S. Zipperstein.

This course will concentrate on the development of the Hebrew novel, examining selected works of Mapu, Smolenskin, Abramovitsch, Feierberg, and Brenner. The preoccupation of these authors with the reconciliation of traditional values and modern concerns will be of particular interest.

[368 Agnon and Hazaz] Spring. 4 credits. Not offered 1980–81.]

369 Independent Study Fall or spring. Variable credit. Prerequisite: permission of instructor. Open to majors and other qualified students. Staff.

Yiddish Language and Literature

131–132 Elementary Yiddish 131, fall; 132, spring. 4 credits each term. This course will satisfy the qualification portion of the language requirement for students who earn a grade of B– or better.

M W F 10:10, plus 1 hour in language lab and additional hours through the term. S. Slotnick.

The purpose of the course is to provide a thorough grounding in all language skills: listening, speaking, reading, and writing. Three hours will be devoted to language practice, grammar explanation, reading, and cultural information. A fourth hour will be spent in the language laboratory. A supplemental series of films in Yiddish will form part of the curriculum.

[375 The Shtetl in Modern Yiddish Fiction in English Translation (also German Literature 375)] Fall. 4 credits. Not offered 1980–81.]

[377 Topics in Yiddish Literature (also German Literature 377)] Spring. 4 credits. Not offered 1980–81.]

Related Course in Another Department

[Yiddish Literature in Translation (German 350)] Not offered 1980–81.]

History of the Jewish People

[243 History of Ancient Israel to 450 B. C. E.] Spring. 4 credits. Not offered 1980–81.]

244 Jews of the Ancient and Muslim Near East: 450 B. C. E.–1204 C. E. Fall. 4 credits.

T R 9:05; disc to be arranged. S. Zipperstein.

A survey of the political, cultural, and social history of the Jews, from the period of Ezra and Nehemiah until the death of Moses Maimonides. The focus is on the link between the Jewish history of late ancient and early medieval times and the evolution of the classical Jewish world view, as the development of the Jewish community is traced from that of a local tribal kingdom to that of a multinational religion. Of special concern is the interaction of the Jews with innovative cultural trends in the Gentile world around them—first that of Greece and Rome, then those of Christianity and Islam to which the Jewish community helped give rise. Emphasis is on the reading of historical documents in translation.

245 Jews of the Christian West: 476–1948

Spring. 4 credits.

T R 12:20; disc to be arranged. S. Zipperstein.

A survey of the political, cultural, and social history of the Jews in the West, from the fall of Rome until the Holocaust and the establishment of the State of Israel. The treatment of Jews in medieval Christendom and their gradual emancipation into modern society, along with corresponding developments in Jewish culture are emphasized as the complex background of the modern Jewish experience is explored. Emphasis is on the reading of historical documents in translation.

331 Seminar in Jewish History: Eastern European Jewry in the Modern Age Spring. 4 credits.

T R 10:10–11:25. S. Zipperstein.

After an introductory survey on the origin and development of the Eastern European Jewish community, the seminar will explore the process of Eastern European Jewish modernization from the late eighteenth century up until the 1917 revolution, particularly as it related to the following concerns: the consolidation of new definitions of Jewish identity and community and changing attitudes toward the Russian state. The origins of the Eastern European Jewish community as well as the impact of the Enlightenment, positivism, socialism, nationalism, and communism on the Jewish community in Eastern Europe will be discussed.

[343 The Jewish Community Throughout History] Spring. 4 credits. Not offered 1980–81.]

[344 Age of the Patriarchs] Fall. 4 credits. Not offered 1980–81.]

[347 Judaism and Christianity in Conflict] Fall. 4 credits. Not offered 1980–81.]

[348 Independent Study] Fall or spring. Variable credit. Directed readings on the history, culture, and civilization of ancient Israel and the Jewish people. Not offered 1980–81.]

History of Ancient Near Eastern Civilizations

341 The History and Culture of Ancient Mesopotamia Fall. 4 credits.

M W F 11:15. R. S. Falkowitz.

An intensive survey of Mesopotamian civilization from ca. 4000 B. C. E. to the conquest of Alexander the Great. The course will include the following topics: geography, history of Assyriology, political, social and intellectual history, literature, technology, and archaeology. Essential for an understanding of all of the Ancient Near East, including biblical Israel, Egypt, ancient Iran, Anatolia, as well as early Greece and

certain contemporary anthropological theories about political development, urbanization, and the development of technology.

[345 History of the Ancient Near East in Biblical Times] Fall. 4 credits. Not offered 1980–81.]

346 The Roots of Greek Civilization (also College Scholar 346 and Government 352) Fall. 4 credits.

Prerequisite: permission of instructor. Some knowledge of Greek and/or Hebrew would be helpful but is not necessary. The Greek writers will be read in English and although ability to read the originals would be an advantage, the questions being studied can be approached through the translated texts.

T R 12:20–1:35. M. Bernal.

The course will investigate the present paradigm or general framework used to explain the origins of Mycenaean and Classical Greece. It will focus on the use of history, linguistics, and archaeology to sustain it. The course will then examine the rise and social context of each of these disciplines and the political function of ancient Greece in the nineteenth and twentieth centuries. There will be close reading of fifth-century Greek writers on their past. An alternative paradigm will then be suggested and the problems of competing paradigms will be discussed.

[349 Independent Study] Fall or spring. Variable credit. Directed readings on the history, culture, and civilization of the ancient Near East. Not offered 1980–81.]

[385 Interconnections in the Eastern Mediterranean World in Antiquity] Spring. 4 credits. Not offered 1980–81.]

Related Course in Another Department

[Greeks and Their Eastern Neighbors (Classics 322)] Not offered 1980–81.]

Near Eastern and Biblical Archaeology

[248 Introduction to Art History: Art of Egypt and Mesopotamia (also History of Art 211)] Spring. 3 credits. Not offered 1980–81.]

[249 Ancient Seafaring (also Archaeology 275)] Fall. 3 credits. Not offered 1980–81.]

[280 Mediterranean Archaeology (also Classics 200 and Ancient Mediterranean Studies 200)] Fall. 3 credits. Not offered 1980–81.]

[285 Introduction to Biblical Archaeology] Spring. 3 credits. Not offered 1980–81.]

[386 Introduction to Field Archaeology in Israel] Summer. Not offered summer, 1981.

D. I. Owen.

See course description in *Cornell Summer 1980*.]

[387 Archaeology of the Ancient Near East (also Archaeology 310)] Spring. 4 credits. Not offered 1980–81.]

[388 Archaeology of Ancient Egypt] Fall. 4 credits. Not offered 1980–81.]

[481 Seminar in Syro-Palestinian Archaeology: The Israelite Conquest of Canaan] Fall. 4 credits. Not offered 1980–81.]

Related Course in Another Department

[The Archaeology of Cyprus (Classics 321)] Not offered 1980–81.]

Islamic

244 Jews of the Ancient and Muslim Near East: 450 B. C. E.–1204 C. E. See course description under "History of the Jewish People."

250 Classics of Islamic Literature Spring, 3 credits. A Freshman Seminar.
M W F 1:25. P. D. Molan.

A study of the culture and poetry of pre-Islamic Arabia, Muhammad and the Koran, and works of traditional and secular authors of the eighth to thirteenth centuries. The diversified culture of the Islamic "Golden Age," which has set the standard for subsequent intellectual and cultural developments in the Muslim World, is introduced through readings in translation.

253 Introduction to Islamic Civilization Fall, 3 credits.
M W F 10:10. D. S. Powers.

A general introduction to Islamic history, culture, and civilization from the birth of Muhammad to the present. Students read translations of primary sources and view a series of films on the traditional Islamic world.

371 Classical Islamic Literatures Fall, 4 credits.
M W F 11:15. P. D. Molan.

The rise and development of courtly, Islamic literatures will be traced through readings of the literary classics, both religious and secular, of the Islamic Middle East. All major literary genres will be studied in the light of medieval Muslim and modern critical theory and relations with Western letters and thought will be examined. Students may read works in translation and/or the vernacular languages at their discretion.

372 Islamic Popular Literature Spring, 4 credits.
M W F 11:15. P. D. Molan.

Condemned or ignored by Muslim court critics, a lively popular culture nonetheless thrived throughout the Middle Ages in the Islamic world. It underlies much of modern Middle Eastern literature as well. Popular narrative, popular poetry, and popular medieval theatricals, as well as modern Islamic literature, will be read and studied in the light of folkloric and structuralist theory.

376 Seminar on Islamic Law and Society Spring, 4 credits.
M W F 10:10. D. S. Powers.

The course seeks to enable the student to develop an appreciation for the uniqueness of Islamic society, both past and present, by means of an examination of its legal system, the *Shari'a*. The course is divided into three units: (1) An analysis of the historical development of the *Shari'a* between the seventh and tenth centuries A.D.; (2) an examination of the central role of the *Shari'a* in the social, political, and economic life of medieval Islamic society; (3) a study of the role of Islam in the modern Near East, with special reference to Turkey, Egypt, and Iran.

Honors Course

400 Independent Study: Honors Fall or spring. Variable credit.

Directed readings and conferences center on the candidate's honors thesis. The thesis topic must be approved by the honors adviser at the end of the second term of the junior year.

Related Courses in Other Departments

[Introduction to Medieval Latin (Classics 214) Not offered 1980–81.]

Introduction to Classical Archaeology (Classics 220 and Art History 220)

[Minoan-Mycenaean Art and Archaeology (Classics 221) Not offered 1980–81.]

New Testament Greek (Classics 308)

[Art and Archaeology of Archaic Greece (Classics 326) Not offered 1980–81.]

[Pagan and Christian at Rome (Classics 332) Not offered 1980–81.]

Problems in Minoan-Mycenaean Archaeology (Classics 629)

Man and His Environment in Western Religious Thought (Society for the Humanities 415–416)

Pali

See Modern Languages, Literatures, and Linguistics, p. 92.

Philosophy

In some courses, there may be a small fee for photocopying materials to be handed out to students.

Introductory Courses

These courses have no prerequisites; all are open to freshmen.

100 Freshman Seminar in Philosophy Fall or spring, 3 credits. Limited to freshmen who have not taken Philosophy 101. Independent sections, each limited to 20 students. Letter grade only.

Fall: M W F 9:05, staff; M W F 10:10, D. Zaret; M W F 11:15, staff; M W F 1:25, R. Miller; M W F 2:30, staff; T R 10:10–11:25, C. Ginet; T R 12:20–1:35, R. Boyd; T R 2:30–3:45, staff. Spring: M W F 9:05, staff; M W F 10:10, staff; M W F 11:15, H. Hodes; M W F 1:25, staff; M W F 2:30, staff; T R 10:10–11:25, N. Kretzmann; T R 12:20–1:35, R. Stalnaker; T R 2:30–3:45, J. Bennett.

101 Introduction to Philosophy Fall or spring, 3 credits.

Fall: M W F 9:05, T. Irwin. Spring: M W F 9:05, N. Sturgeon.

Classical and contemporary problems in philosophy studied through the writings of some of the major philosophers in the Western tradition (such as Plato, Descartes, Hume, Kant, Mill, Russell). Questions discussed may include: what is knowledge, and how can we know anything? Can we have rational grounds for belief in God? Are human beings anything more than machines? Is anything objectively right or wrong?

131 Logic: Evidence and Argument Spring, 3 credits.

M W F 11:15. J. Bennett.

An introduction to the fundamental principles of inference, intended to systematize and develop skills in evaluating arguments. Both deductive and inductive arguments will be considered. The course is not a general introduction to philosophy, but develops skills useful in all areas of study, including philosophy.

[210 Ancient Thought Not offered 1980–81.]

211 Ancient Philosophy Fall, 4 credits.
T R 12:20–1:35. G. Fine.

An introduction to the major arguments and theories of ancient Greek and some Roman philosophy: the pre-Socratics, Plato, and Aristotle; the Stoics and Epicureans. Questions to be considered include: What is the nature of the universe, and how can it be known? What are the nature and limits of human knowledge? Is there any rational basis for moral beliefs? Has man free will?

212 Modern Philosophy Spring, 4 credits.
T R 12:20–1:35. G. Fine.

A survey of some central philosophical problems in the rationalists, empiricists, and Kant. Typical problems include: the nature and limits of knowledge;

perception; the existence and nature of God; free will and determinism; mind and body. Readings from Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

213 Existentialism Spring, 4 credits.
T R 2:30–3:45. A. Wood.

A study of selected writings, literary as well as philosophical, by four major thinkers to whom the term "existentialist" has often been applied: Søren Kierkegaard, Friedrich Nietzsche, Fyodor Dostoevski, Jean-Paul Sartre.

[214 Philosophical Issues in Christian Thought Not offered 1980–81.]

231 Formal Logic Spring, 4 credits.
M W F 11:15. C. Ginet.

Analysis and evaluation of deductive reasoning in terms of formalized languages. The logic of sentences, predicates, and quantifiers.

241 Ethics Spring, 4 credits.
M W F 1:25. T. Irwin.

Introduction to philosophical study of major ethical questions, including both general theoretical issues (e.g., Are there objective values? Is human nature inevitably selfish?) and also practical moral problems (e.g., war, abortion, equality of opportunity, and reverse discrimination). Readings from classical ethical writers (e.g., Plato, Mill, Nietzsche) and from contemporary sources.

242 Social and Political Theory Fall, 4 credits.
T R 10:10–11:25. J. Bennett.

A survey of five main problems of political philosophy: the need for the state; the moral legitimacy of the state; freedom, democracy, and economic justice. Organized around selected writings of five major political philosophers: Hobbes, Locke, Mill, Rousseau, and Marx.

243 Aesthetics Fall, 4 credits.
T R 2:30–3:45. R. Miller.

An introduction to philosophical problems concerning the nature of art, aesthetic value, and critical reasoning. Classical attempts to define the nature of genuine art; the objectivity of aesthetic judgment, the relation between the value of a work of art and the truth of the ideas it embodies.

245 Biomedical Ethics Fall, 3 credits.
See course description under Biological Sciences 205.

246 Environmental Ethics Spring, 3 credits.
See course description under Biological Sciences 206.

261 Knowledge and Reality Spring, 4 credits.
M W F 9:05. J. Bennett.

Introduction to problems concerning the nature of knowledge and the nature of the world and human beings. Problems discussed will include whether our knowledge has secure foundations, or needs them, what the nature of personal identity is, whether human beings are free or slaves of deterministic causation, what the relation between the mental and the physical is.

262 Philosophy of Mind Fall, 4 credits.
M W F 1:25. R. Stalnaker.

Discussion of a number of problems about the nature of mind. For example, can thoughts and feelings be physical events in the brain? Might computers or robots be conscious beings? What is it that constitutes a person's identity—the unity of his consciousness? Is there a conflict between free will and determinism?

263 Religion and Reason Fall, 4 credits.
T R 10:10–11:25. N. Kretzmann.

Recent and traditional literature will be taken into account in the examination of such topics as

evidence for and against the existence of a god; philosophical problems associated with the attributes of God, as described in the great monotheistic religions; and philosophical problems associated with the relationship of God to the physical universe and to man.

286 Science and Human Nature Spring 4 credits.
M W F 11:15. R. Boyd, N. Sturgeon.

An examination of attempts in the biological and social sciences to offer scientific theories of human nature and human potential and to apply such theories to explain important social and psychological phenomena. Topics vary and may include issues in psychology such as behaviorism, Freudianism, and artificial intelligence, or issues in the foundations of historical theory such as methodological individualism and economic determinism as well as relevant issues in the biological sciences. Topic for 1980-81: Darwin, social Darwinism, and sociobiology.

Intermediate Courses

Some of these courses have prerequisites.

[309 Plato Not offered 1980-81.]

310 Aristotle Spring. 4 credits.
T R 2:30-3:45. G. Fine.

Aristotle's main philosophical doctrines will be studied: essence and necessity, substance, form and matter; scientific method and the structure of scientific knowledge; philosophy of nature; teleology; the nature of universals. Aristotle's criticisms of Plato, and his relevance to modern philosophical concerns will also be discussed.

311 Modern Rationalism Spring. 4 credits.
W F 2:30-3:45. C. Ginet.

Topic for 1980-81: Descartes and Leibniz.

312 Modern Empiricism Fall. 4 credits.
M W F 11:15. N. Sturgeon.

Locke, Berkeley, and Hume. Substance, causality and necessity; meaning, the possibility of scientific and moral knowledge. Historical and critical emphasis, with some illustrations of influences on more recent empiricist theories.

313 Medieval Philosophy Fall. 4 credits.
T R 2:30-3:45. N. Kretzmann.

Examination of selected classical works in medieval philosophy.

[314 Topics in Ancient Philosophy Not offered 1980-81.]

315 Special Topics in the History of Philosophy Fall. 4 credits.
M W F 2:30. T. Irwin.

Topic for 1980-81: Knowledge, doubt, and morality in ancient and modern philosophy.

[316 Kant Not offered 1980-81.]

[317 Hegel Not offered 1980-81.]

319 Philosophy of Marx Spring 4 credits.
T R 10:10-11:25. A. Wood.

The philosophical aspects of the thought of Karl Marx. The dialectical method; Marx's concepts of humanity and alienation; the materialist conception of history; the foundations of Marxian economic theory; the Marxian critique of capitalism.

331 Introduction to Formal Logic Fall. 4 credits.
M W F 9:05. H. Hodes.

Sentential logic and first order quantification theory. Covers the same material as 231, but in more depth and with additional metatheory.

332 Semantics Fall. 4 credits. Prerequisite: at least one philosophy course, some background in logic.

M W F 10:10. R. Stalnaker.
Introduction to the philosophy of language. Discussion of the nature of representation and communication, alternative conceptions of meaning, the analysis of speech acts, the relation between logic and natural language.

[341 Ethical Theory Not offered 1980-81.]

342 Law, Society, and Morality Spring. 4 credits. Prerequisite: one course in philosophy or one course in a related subject matter.
M W F 10:10. D. Lyons.

An introduction to legal and political philosophy emphasizing the nature of law, the problem of coercion, principles of justice, and general welfare.

361 Metaphysics and Epistemology Spring. 4 credits. Prerequisite: one course in philosophy.
M W F 11:15. R. Stalnaker.

Topics for 1980-81: Induction and Probability.

[363 Topics in the Philosophy of Religion Not offered 1980-81.]

381 Philosophy of Science Fall. 4 credits.
W 7:30-10:30 p.m. R. Boyd.

An examination of central epistemological and metaphysical issues raised by scientific theorizing: the nature of evidence, scientific objectivity, the nature of theories, "models" and paradigms, the character of the scientific revolution. In addition to the contemporary literature in the philosophy of science, readings are also drawn from the history of science and from the works of modern philosophers such as Locke, Hume, and Descartes.

382 Philosophy and Psychology Spring. 4 credits.
W 7:30-10:30 p.m. R. Boyd.

Philosophy of psychology as a special case of the philosophy of science: problems of measurement, theory construction, experimental design, and the relation of psychology to other sciences.

[383 Philosophy of Choice and Decision Not offered 1980-81.]

[387 Philosophy of Mathematics Not offered 1980-81.]

388 Social Theory Spring. 4 credits. Prerequisites: one course in philosophy or two in the social sciences.
M W F 2:30. R. Miller.

A study of leading modern conceptions of society, including those of Marx, Durkheim, and Weber. Among the topics to be considered: the functions of the state, the nature of ideology, the origins and consequences of economic systems, the relation between sociological and psychological explanation.

390 Informal Study Fall or spring; to be taken only in exceptional circumstances. Credit to be arranged. Must be arranged by the student with his or her adviser and the faculty member who has agreed to direct the study.
Staff.

Advanced Courses and Seminars

These courses are offered primarily for majors and graduate students.

395 Majors' Seminar Fall. 4 credits. S-U grades. Limited to junior and senior philosophy majors.
T R 10:10-11:25. N. Sturgeon.

An examination of some contemporary discussions of three or four classical philosophical problems. For example, free will versus determinism, the problem of induction, personal identity, the justification of moral claims, the problem of universals.

[412 Medieval Philosophy Not offered 1980-81.]

413 Plato and Aristotle Spring. 4 credits. Seminar suitable for undergraduates; open to non-philosophy majors with instructor's permission.
M 3:45-5:45. T. Irwin.

Topic for 1980-81: Plato's *Republic*. A thorough examination of the *Republic*, of the many philosophical problems it raises, and of its place in Plato's philosophical development. We will discuss the structure and purpose of the dialogue, and its contribution to ethics, political theory, moral psychology, theory of knowledge, metaphysics and philosophy of art.

431 Deductive Logic Spring. 4 credits. Prerequisite: Philosophy 231 or 331 or equivalent.
M W F 1:25. H. Hodes.

The first order predicate calculus; proof theory and model theory; the completeness theorem. Theories and definition; elementary set theory.

[433 Philosophy of Logic Not offered 1980-81.]

[436 Intensional Logic Not offered 1980-81.]

[437 Problems in the Philosophy of Language Not offered 1980-81.]

441 Contemporary Ethical Theory Fall. 4 credits.
T 12:20-2:20. D. Lyons.

Topic for 1980-81: Ethical relativism. A critical study of relativistic conceptions of morality, with an emphasis on recent work by Philippa Foot, Gilbert Harman, and Bernard Williams, among others.

[443 Topics in Aesthetics Not offered 1980-81.]

444 Contemporary Legal Theory (also Law 623) Fall 4 credits.

Hours to be arranged. D. Lyons.
Recent work on the nature of law and its relations to morality, with an emphasis on the writings of H. L. A. Hart and Ronald Dworkin.

461 Metaphysics Fall. 4 credits.
T R 2:30-3:45. C. Ginet.

Topic for 1980-81: The nature of human action. What makes an event an action? Must it begin with an act of will? And what is that? What is it to do something intentionally? What is required for freedom of action? What makes one responsible for something that happens? What is required for the truth of an intentional explanation of an action? Are such explanations compatible with mechanistic explanations?

[462 Theory of Knowledge Not offered 1980-81.]

481 Problems in the Philosophy of Science Spring. 4 credits.

T R 12:20-1:35. D. Zaret.
Topic for 1980-81: Philosophical problems in quantum mechanics.

490 Special Studies in Philosophy Fall or spring. 4 credits. Open only to honors students in their senior year.
Staff.

611 Ancient Philosophy Fall. 4 credits.
R 3:45-5:45. G. Fine.

Topic for 1980-81: Aristotle on Essence, Necessity, and Determinism. A study of Richard Sorabji's *Necessity, Cause, and Blame*.

612 Medieval Philosophy Spring. 4 credits.
R 3:45-5:45. N. Kretzmann.

Topic for 1980-81 to be announced.

[613 Modern Philosophers Not offered 1980-81.]

[619 History of Philosophy Not offered 1980-81.]

[631 Logic Not offered 1980-81.]

[632 Semantics Not offered 1980–81.]

[633 Philosophy of Language Not offered 1980–81.]

641 Ethics and Value Theory Fall. 4 credits.
T 3:45–5:45. J. Bennett.

Topic for 1980–81: Human goodness and economic justice. How conceptions of human goodness interact with theories of economic justice.

[661 Theory of Knowledge Not offered 1980–81.]

[662 Philosophy of Mind Not offered 1980–81.]

[664–665 Metaphysics Not offered 1980–81.]

[681 Philosophy of Science Not offered 1980–81.]

682 Philosophy of Social Science Spring.
4 credits.

T 3:45–5:45. R. Miller.
Topic for 1980–81: The logic of explanation in the social sciences.

700 Informal Study Fall or spring. Credit to be arranged. To be taken by graduate students only in exceptional circumstances and by arrangement made by the student with his or her special committee and the faculty member who has agreed to direct the study.
Staff.

Physics

101–102 General Physics 101, fall, except by special permission; 102, spring; may also be offered during summer session. 4 credits each term.

Prerequisites: three years of high school mathematics, including some trigonometry. Prerequisite for Physics 102: 101 or 112 or 207. Includes more modern physics and less mathematical analysis than Physics 207–208 or 112–213–214, but more mathematics than courses in Physics 201 to 205. Students planning to major in a physical science should elect Physics 207–208 or 112–213–214. A self-paced, mastery-oriented audiotutorial format; students work in a learning center at hours of their own choice. Repeated tests on each unit are given until mastery is demonstrated.

One large orientation meeting on T Sept. 2, 10:10 or 12:20 or W Jan. 21, 7:30 p.m. B. Richardson and staff.

Basic principles treated quantitatively but without calculus. Major topics for 101: Particle structure of matter; kinematics; forces and fields (including electric fields); momentum, angular momentum, energy (including nuclear energy); relativity; sound waves. 102: Electricity and magnetism; optics; thermal physics; quantum physics. Laboratory emphasizes instrumentation, measurement and interpretation of data. Text: *Physics for College Students — with Applications to the Life Sciences* by Tillye and Thumm.

112 Physics I: Mechanics and Heat Fall or spring; may also be offered during summer session. 4 credits. Primarily for students of engineering and for prospective physics majors. Prerequisite: coregistration in Mathematics 192 (or 194 or 112), or substantial previous contact with introductory calculus, combined with coregistration in Mathematics 191 (or 193 or 111).

Lecs, M W 10:10 or 12:20; 2 recs each week; one 2-hour lab alternate weeks. Evening exams: fall, Oct. 9, Nov. 20; spring, Feb. 26, April 3. Fall, P. Stern; spring, R. Littauer.

Mechanics of particles: kinematics, dynamics, special relativity, conservation laws, central force fields, periodic motion. Mechanics of many-particle

systems: center of mass, rotational mechanics of a rigid body, static equilibrium. Introduction to thermodynamics. At the level of *Physics* by Tipler.

201 Great Ideas of Physics Fall. 3 credits. Intended for nonscientists; does not serve as a prerequisite to further science courses. Assumes no scientific background, but may use some high school mathematics.

Lecs, M W F 2:30; disc to be arranged. H. Mahr. Topics include the nature of light and the interaction of light and matter, with applications such as lasers and holograms; also the concepts of energy and the arrow of time, with a discussion of solar and nuclear energy conservation.

202 Physics in the World Around Us Spring. 3 credits. Intended for nonscientists; does not serve as a prerequisite to further science courses. Assumes no scientific background, but may use some high school mathematics.

Lecs, M W F 2:30; disc to be arranged. H. Mahr. Basic principles of physics are used for the understanding of the universe at large as well as the submicroscopic world of elementary particles. Short discussions of the origin of life, relativity, and cosmology are included.

203 The Physics of Space Exploration Spring. 3 credits. Intended for nonscientists; does not serve as a prerequisite to further science courses. Assumes no scientific background, but may use some high school mathematics.

Lecs, M W F 2:30. E. Salpeter. The principles of physics (plus simple mathematics) are applied to gain knowledge about planets, stars, and galaxies. The physics behind space probes (and their limitations) is discussed. Interpretation of data from astronomical observations are described. The level of the course will be that of a typical article in *Scientific American* and of Pasachoff's *Astronomy Now*.

[204 Physics of Musical Sound Not offered 1980–81.]

205 Luck and Reason Fall. 3 credits. Limited to 25 students. Intended for nonscientists; does not serve as a prerequisite to further science courses. Assumes no scientific background, but will use some high school algebra.

Lecs, M W F 2:30; disc to be arranged. V. Ambegaokar. An attempt to explain how and when natural scientists can cope rationally with chance. Starting from simple questions (such as how one decides if an event — meeting someone with the same birthday, being dealt a bridge hand all in one suite — is "likely," "unlikely," or just incomprehensible) the course will attempt to reach an understanding of more subtle points: why it is, for example, that in large systems likely events can become overwhelmingly likely. From these last considerations, it may be possible to introduce the interested students in a nontrivial way to the second law of thermodynamics, that putative bridge between C. P. Snow's two cultures.

207–208 Fundamentals of Physics 207, fall; 208, spring. 4 credits each term. Prerequisites for Physics 207: high school physics plus coregistration in Mathematics 192 or 112, or substantial previous contact with introductory calculus, combined with coregistration in Math 191 or 111. Prerequisites for Physics 208: Physics 207 (or 112 or 101) and at least coregistration in Mathematics 192 or 112. Physics 207–208 is intended as the first college physics course for students majoring in a physical science, mathematics, or an analytically oriented biological science.

Lecs, M W 9:05 or 11:15; 2 recs each week; one 3-hour lab alternate weeks. Evening exams: fall, Oct. 9, Nov. 13; spring, Feb. 26, April 14. Fall, R. Cotts; spring, H. Newhall. Core-plus-branch plan. The first nine weeks of each semester are devoted to core material

(lec/discussion/lab format): 207, particle mechanics and waves; 208, electromagnetic fields and circuits. For the last five weeks each term, each student selects one branch topic and the work on this topic is done on an unstructured, self-paced basis. Possible branches: 207, thermodynamics, acoustics and the physics of music, special relativity, gravitation; 208 optics, introduction to quantum mechanics, nuclear physics, electronics. Core at the level of *Physics* by P. A. Tipler.

213 Physics II: Electricity and Magnetism Fall or spring; may also be offered during summer session. 4 credits. Primarily for students of engineering and for prospective physics majors. Prerequisites: Physics 112 and coregistration in the continuation of the mathematics sequence required for 112.

Lecs, T R 9:05 or 11:15; 2 recs each week; one 3-hour lab alternate weeks. Evening exams: fall, Oct. 2, Nov. 13, Dec. 4; spring, Feb. 26, Mar. 26, Apr. 30. Fall, J. Orear; spring, K. Berkelman. Electrostatics, behavior of matter in electric fields, magnetic fields, Faraday's law, electromagnetic oscillations and waves, magnetism. At the level of *Physics* by Tipler. Lab work supplements written and oral work: electrical measurements, dc and ac circuits, resonance phenomena.

214 Physics III: Optics, Waves, and Particles Fall or spring; may also be offered during summer session. 3 or 4 credits. Primarily for students of engineering and for prospective physics majors. Prerequisites: Physics 213 and coregistration in the continuation of the mathematics sequence required for 112. (Physics 310 may be taken, with permission of the instructor, in place of the Physics 214 lab and credit for 214 is reduced to 3 credits.)

Lecs, T R 9:05 or 11:15; 2 recs each week; one 3-hour lab alternate weeks. Evening exams: fall, Oct. 2, Nov. 13, Dec. 4; spring, Mar. 3, Mar. 26, Apr. 23. Fall, R. Richardson; spring, D. Holcomb. Wave phenomena; electromagnetic waves; physical optics; quantum effects, matter waves; uncertainty principle; introduction to wave mechanics, elementary applications.

217 Physics II: Electricity and Magnetism Fall or spring. 4 credits. Intended for students who have done very well in Physics 112 and desire a more analytic treatment than that of Physics 213. Prospective physics majors are encouraged to select Physics 217. Prerequisites: permission of the instructor and approval of the student's adviser before course enrollment. Prerequisites also include a knowledge of the fundamentals of electricity and magnetism and a good mathematical background, including the use of vector calculus.

Lecs, T R S 11:15; rec. T 3:35; lab, R 1:30–4:30. Evening exams may be scheduled. Fall, K. Wilson. A more rigorous version of Physics 213, at the level of *Electricity and Magnetism* by Purcell (Vol II, Berkeley Physics Series).

218 Physics III: Optics, Waves, and Particles Fall or spring. 3 or 4 credits. A special section of Physics 214. Conditions governing enrollment are similar to those of Physics 217. Students are required to do the lab work offered in 214 or to enroll concurrently in Physics 310 (in which case credit for Physics 218 is reduced to 3 credits).

Lecs, T R S 11:15; sec T 2:30; lab, see Physics 214 or 310. Evening exams may be scheduled. Fall, K. Berkelman; spring, J. Orear.

310 Intermediate Experimental Physics Fall or spring. 3 credits. Prerequisite: Physics 208 or 213. May be taken concurrently with 214 or 218 in place of the lab work offered in Physics 214, with permission of student's adviser.

Labs, R F 1:25–4:25. P. Hartman and staff. Students select from a variety of experiments and may work on experiments of their own design if equipment is available. An individual, independent approach is encouraged. Facilities of the Physics 410 lab are available for some experiments.

315 Phenomena of Microphysics Fall or spring. 3 credits. Primarily for students of engineering and prospective majors in physics. Prerequisites: Physics 214 and Mathematics 294.

Fall: lec, M W F 9:05; E. Siggia. Spring: T R S 11:15; J. Scott.

Introduction to the physics of atoms, solids, and nuclei, emphasizing the description of phenomena using the results of elementary quantum and statistical physics. At the level of *Introduction to Modern Physics* by Richtmyer, Kennard, and Cooper.

318 Analytical Mechanics Spring. 4 credits. Prerequisites: Physics 208 or 214 plus one of Mathematics 421, 422, or 423, or permission of instructor. Intended for physics majors concentrating in physics. Similar material is covered in Physics 431 at a less demanding analytical level. (Applied and Engineering Physics 333 is approximately equivalent.)

Lecs, M 11:15–1:15, W F 11:15. R. Cotts. Newtonian mechanics of particles and systems of particles including rigid bodies; oscillating systems; gravitation and planetary motion; moving coordinate systems, relativistic kinematics; wave propagation; Euler's equations; Lagrange's equations; Hamilton's equations; normal modes and small vibrations. At the level of *Classical Dynamics* by Marion.

325 Electricity and Magnetism Fall. 4 credits. Prerequisites: Physics 208 or 214 plus coregistration in one of Mathematics 421, 422, or 423, or permission of instructor. Intended for physics majors concentrating in physics. Similar material is covered in Physics 432 at a less demanding analytical level.

Lecs, T R S 11:15, R 1:25. B. Gittelman. Electrostatics: electric charge and fields, potential, multipoles, conductors, Laplace equation and formal solutions, field energy, dielectric materials, polarization. Magnetostatics: currents, magnetic fields and vector potential, magnetic materials, field energy. Maxwell's equations, Poynting vector. Electrodynamics: plane waves, fields from moving and oscillating charges. At the level of *Lectures on Physics* Vol. II by Feynman and *Foundations of Electromagnetic Theory* by Reitz and Milford.

326 Electromagnetic Waves and Physical Optics Spring. 4 credits. Prerequisite: Physics 325.

Lecs, T R S 9:05, W 1:25. A. Sievers. Electrodynamics: applications of Maxwell's equations, wave equation, transmission lines, wave guides, radiation, special relativity. Physical optics: reflection, refraction, dispersion, polarization, Fresnel and Fraunhofer diffraction. At the level of *Classical Electromagnetic Radiation* by Marion.

330 Modern Experimental Optics Spring. 3 credits. Prerequisite: one year of physics.

Lec, M 2:30; lab, T W R or F 1:25–4:15. A practical, lab-based course for students of physical and biological sciences. Students select four or five subject units to match their interests and backgrounds. The units include: physics of lasers, image formation, holography, spectroscopy, light pulses, coherence and correlation, diffraction and interference, light sources and detectors. Each unit involves one or more experiments from a set of varying difficulty and sophistication, and readings, supplementary notes, and problems. An introduction to modern optical techniques and equipment used in current research in such fields as biology, chemistry, physics and astronomy.

341 Thermodynamics and Statistical Physics Fall. 4 credits. Prerequisites: Physics 214 and Mathematics 294.

Lecs, T R S 9:05, T 2:30. D. Lee. Statistical physics, developing both thermodynamics and statistical mechanics simultaneously. Concepts of temperature, laws of thermodynamics, entropy, thermodynamics relations, free energy. Applications to phase equilibrium, multicomponent systems, chemical reactions and thermodynamic cycles.

Application of statistical mechanics to physical systems; introduction to treatment of Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics with applications. Elementary transport theory. At the level of *Fundamentals of Statistical and Thermal Physics* by Reif or *Thermal Physics* by Morse.

360 Introductory Electronics (also Engineering A&E 363) Fall or spring. 4 credits. Prerequisite:

Physics 208 or 213 or permission of instructor; no previous experience with electronic circuits is assumed; however, the course moves through the introductory topics (dc and ac circuits, basic circuit elements) rather quickly. Students wishing a somewhat slower-paced treatment might consider taking Electrical Engineering 210 before Physics 360.

Lec, M 2:30–4:25; labs, T R or W F 1:25–4:25. Fall, H. Newhall; spring, A. Kuckes. Basic analysis and design of semiconductor circuits useful in electronic instrumentation, such as amplifiers; oscillators and waveform generators; switching, digital, and timing circuits; power supplies. The level is that of *Electronic Measurements for Scientists*, by Malmstadt, Enke, and Crouch. This text is not followed in detail and is not required reading.

400 Informal Advanced Laboratory Fall or spring; may also be offered during summer session. Variable credit. Prerequisite: two years of physics and permission of instructor.

Lab, see Physics 410. Experiments of widely varying difficulty in one or more areas, as listed under Physics 410, may be done to fill the student's special requirements.

410 Advanced Experimental Physics Fall or spring. 4 credits. Limited to seniors except by special permission. Prerequisites: Physics 214 (or 310 or 360) plus 318 and 325, or permission of instructor.

Lec, M 2:30–4:25; labs, T W 1:25–4:25. Fall, J. C. Scott and staff; spring, S. Gregory and staff. Selected topics in experimental concepts and techniques. About seventy different experiments are available in mechanics, acoustics, optics, spectroscopy, electrical circuits, electron and ion physics, heat, X rays and crystal structure, solid-state physics, cosmic rays, and nuclear physics. The student performs three to six diverse experiments, depending on difficulty, selected to meet individual needs and interests. Independent work is stressed.

431–432 Introductory Theoretical Physics I and II 431, fall; 432, spring. 4 credits each term.

Prerequisites: Physics 431 and 207–208 plus Mathematics 294 or equivalent and Mathematics 431 and 432 or equivalent; or permission of instructor. Primarily for physics majors with concentrations outside physics, and for graduate students in a science other than physics (such as chemistry, engineering, biology, geology). Physics 318 and 325 cover similar material at a higher analytical level, and are intended for physics majors concentrating in physics.

Lecs, M W F 11:15 and F 1:25. Fall, K. Gottfried; spring, R. Talman. 431: Mechanics. Includes Newtonian mechanics, Lagrange's and Hamilton's equations, central forces, rigid-body motion, and small oscillations. At the level of *Classical Dynamics* by Marion. 432: Electricity and magnetism. Includes electrostatics, magnetostatics, boundary value problems, dielectric and magnetic media, circuit theory. Maxwell's equations and electromagnetic waves. At the level of *Electricity and Magnetism*, third ed., by Bleaney and Bleaney.

443 Introductory Quantum Mechanics Fall. 4 credits. Prerequisites: Physics 318 and 325, or 431–432; Physics 315, and Mathematics 421; or permission of instructor.

Lecs, M W F 9:05, M 3:35. A. Sievers. Introduction to concepts and techniques of quantum mechanics, at the level of *Introduction to Quantum Mechanics*, by Dicke and Wittke.

444 Nuclear and High-Energy Particle Physics Spring. 4 credits. Prerequisite: Physics 443 or permission of instructor.

Lecs, M W F 9:05, F 1:25. M. Gilchriese. Behavior of high-energy particles and radiation; elementary particles; basic properties of nuclei; nuclear reactions; nuclear forces; cosmic rays; general symmetries and conservation laws. At the level of *Subatomic Physics* by Frauenfelder and Henley.

454 Introductory Solid-State Physics Spring. 4 credits. Prerequisite: Physics 443 or Chemistry 793, or permission of instructor.

Lecs, T R S 10:10, R 3:35. An introduction to modern solid-state physics, including lattice structure, lattice vibrations, thermal properties, electron theory of metals and semiconductors, magnetic properties, and superconductivity. At the level of *Introduction to Solid State Physics*, fifth edition, by C. Kittel.

464 Physics of Macromolecules Spring. 3 credits. Prerequisite: a course in quantum mechanics.

T R 10:10; disc or guest lecturer T 2:30. P. Champion. An introduction to the physics associated with the models for and the experimental investigation of the structure and physical properties of macromolecules. Primary emphasis will be on macromolecules of biological interest.

481–489 Special Topics Seminar Spring. 2 credits. Limited to senior physics majors and those who receive permission of instructor. S-U grades only. Hours to be arranged.

One selected topic of current interest is studied. Students participate in organization and presentation of material.

490 Independent Study in Physics Fall or spring. 1–3 credits. Ordinarily limited to seniors. Prerequisite: permission of professor who will direct proposed work. Individual project work (reading or laboratory) in any branch of physics.

500 Informal Graduate Laboratory Fall or spring. Variable credit.

506 Design of Electronic Circuitry Spring. 3 credits.

M W 9:05. D. Hartill. Circuit techniques and design in electronic measurement and instrumentation with emphasis on applications to physics experiments. At the level of *Integrated Electronics* by Millman and Halkias.

510 Advanced Experimental Physics Fall or spring. 3 credits.

Labs, T W 1:25–4:25. Fall, J. C. Scott and staff; spring, S. Gregory and staff. About seventy different experiments are available in mechanics, acoustics, optics, spectroscopy, electrical circuits, electronics and ionics, heat, x rays, crystal structure, solid-state, cosmic rays, nuclear physics. Students perform four to eight experiments selected to meet individual needs. Independent work is stressed.

520 Projects in Experimental Physics Fall or spring. 1–3 credits. To be supervised by faculty member. Projects of modern topical interest that involve some independent development work by student. Opportunity for more initiative in experimental work than is possible in Physics 510.

551 Classical Mechanics Fall. 3 credits.

Lecs, T R S 10:10. J. Krumhansl. Lagrangian and Hamiltonian formulation of classical mechanics and modern applications in nonlinear dynamics. The foundations will be taught at the level

of the Landau and Lifshitz's tract on mechanics, together with selected portions from V. I. Arnold, *Mathematical Methods of Classical Mechanics*. Approximately the latter third of the course will be directed at questions of stability and stochasticity in nonlinear systems and nonlinear waves such as solitons.

553-554 General Relativity (also Astronomy 509-510) 553, fall; 554, spring. 4 credits. Prerequisite: knowledge of special relativity at the level of *Classical Mechanics*, by Goldstein. Offered alternate years.

Fall: lecs, T R 8:30-9:55. Spring: lecs, T R 10:10-11:35. S. Teukolsky.
553 is a systematic introduction to Einstein's theory, with emphasis on modern coordinate-free methods of computation. Topics include review of special relativity, modern differential geometry, foundations of general relativity, laws of physics in the presence of a gravitational field, experimental tests of gravitation theories. At the level of *Gravitation* by Misner. 554 is a continuation of 553 that emphasizes applications to astrophysics and cosmology. Topics include relativistic stars, gravitational collapse and black holes, gravitational waves, cosmology.

561 Classical Electrodynamics Fall. 3 credits. Lecs, M W F 10:10. D. Yennie.
Maxwell's equations, electromagnetic potentials, electrodynamics of continuous media (selected topics), special relativity, radiation theory. At the level of *Classical Electrodynamics* by Jackson.

562 Statistical Mechanics (also Chemistry 796) Spring. 4 credits. Primarily for graduate students. Prerequisite: Chemistry 793 or equivalent. Lecs, T R 8:30-9:55. M. E. Fisher.
Thermodynamic assemblies; Legendre transformation. Ergodic and information theory ideas. Ensembles and partition functions; equivalences and fluctuations; indistinguishability. Thermodynamic properties of ideal gases and crystals; Third Law; chemical equilibria. Imperfect gases; correlation functions and their applications. Ideal quantal gases; Bose-Einstein condensation. Ideal paramagnets. Ising models and lattice gases. At the level of Kubo's *Statistical Mechanics*.

572 Quantum Mechanics I Fall or spring. 4 credits. Lecs, M W F 11:15. Fall, D. Mermin; spring, T. Yan.
The formulation of quantum mechanics in terms of states and operators. Symmetries and the theory of angular momentum. Stationary and time-dependent perturbation theory. Fermi's golden rule, and variational methods. The elements of scattering theory. At a level between *Quantum Mechanics* by Merzbacher and *Quantum Mechanics* by Landau and Lifshitz. Familiarity with elementary aspects of the Schroedinger equation is assumed, including its application to simple systems such as the hydrogen atom.

574 Quantum Mechanics II Spring. 4 credits. Required of all Ph.D. majors in theoretical physics. Lecs, M W F 11:15. V. Ambegaokar.
Discussion of various applications of quantum mechanics, such as collision theory, theory of spectra of atoms and molecules, theory of solids, emission of radiation, relativistic quantum mechanics. At the level of *Intermediate Quantum Mechanics* by Bethe and Jackiw.

612 Experimental Atomic and Solid-State Physics Fall. 3 credits. Lecs, M W F 1:25. S. Gregory.
Lectures on techniques and design principles, emphasis on study of solids by their interactions with electromagnetic fields. Topics: sources and detectors, scanning and resonance techniques, signal processing, sample characterization, environmental control.

[614 Experimental High-Energy Physics Not offered 1980-81.]

635 Solid-State Physics I Fall. 3 credits. First semester of a two-semester sequence of solid-state physics for graduate students who have had the equivalent of Physics 572 and 562. Lecs, T R S 11:15. N. Ashcroft.
Electronic and phonon properties of metals and insulators, including transport processes. Discussions at the level of *Solid State Physics* by N. W. Ashcroft and N. D. Mermin.

636 Solid-State Physics II Spring. 3 credits. Lecs, T R 2:30-4
Concepts developed in Physics 635 are extended and applied in a survey of the following: band theory and Fermi surface in metals, localized states, magnetism, neutron and light scattering, phenomenological superconductivity, and other topics of current-interest in condensed-matter physics.

645 High-Energy Particle Physics Fall. 3 credits. Lecs, M W F 11:15. J. Lee-Franzini.
Introduction to the physics of nucleons and mesons. Strong, electromagnetic, and weak interactions. Relevance of symmetry laws to particle physics. Introduction to the quark model. Unification of weak and electromagnetic interactions. At the level of *Introduction to High Energy Physics* by Perkins.

646 High-Energy Particle Physics Spring. 3 credits. Lecs, M W F 11:15. B. Gittelman.
Topics of current interest, including hadron electroproduction, electron positron annihilation, and high-energy neutrino reaction, are surveyed. Lectures and reading material are at the level of *High Energy Hadron Physics* by Perl. Students share in leading the discussions.

Only S-U grades will be given in courses numbered 650 or above.

651 Advanced Quantum Mechanics Fall. 3 credits. Lecs, M W F 10:10. M. Peskin.
Relativistic quantum mechanics with emphasis on perturbation techniques. Extensive applications to quantum electrodynamics. Introduction to renormalization theory. At the level of *Relativistic Quantum Mechanics* by Bjorken and Drell.

652 Quantum Field Theory Spring. 3 credits. Lecs, M W F 10:10. D. Yennie.
Canonical field theory, model field theories, Green's functions, renormalization. Introduction to analytic properties of scattering amplitudes and dispersion relations. Applications to strong interactions. At the level of *Relativistic Quantum Fields* by Bjorken and Drell.

653 Statistical Physics Fall. 3 credits. Normally taken by students in their second or later years. Prerequisites: competence in the basic principles of quantum mechanics, statistical mechanics, and thermodynamics. Lecs, M W F 9:05. M. Fisher.
Survey of topics in modern statistical physics including the theory of simple classical and quantum fluids; the theory of ordered systems such as superfluids and superconductors; kinetic theory and the Boltzmann equation; phenomenological Fermi liquid theory and hydrodynamics; theories of inhomogeneous systems. The contents of the course vary with the current interests of the instructor. There is rarely any set text, though *Statistical Physics* by Landau and Lifshitz gives an idea of the level.

654 Theory of Many-Particle Systems Spring. 3 credits. Prerequisites: Physics 562, 574, 635, 636, and 653. Lecs, T R 10:10-11:35. E. Siggia.
Equilibrium and transport properties of microscopic systems of many particles studied at zero and finite temperatures. Thermodynamic Green's function

techniques introduced and applied to such topics as normal and superconducting Fermi systems, superfluidity, magnetism, insulating crystals.

661 High-Energy Phenomena Fall. 3 credits. Lecs, M R F 3:35. T. M. Yan.
Topics vary at the discretion of the instructor.

665 Topics in Theoretical Astrophysics (also Astronomy 555) Lecs, M W F 2:30. E. Salpeter.
Usually concentrates on the theory of the interstellar medium.

[667 Theory of Stellar Structure and Evolution (also Astronomy 560) Usually offered during the fall term of odd calendar years. Not offered 1980-81.]

681-689 Special Topics Offerings are announced each term. Typical topics are: group theory, analyticity in particle physics, weak interactions, superfluids, stellar evolution, plasma physics, cosmic rays, general relativity, low-temperature physics, x-ray spectroscopy or diffraction, magnetic resonance, phase transitions and the renormalization group.

690 Independent Study in Physics Fall or spring. Variable credit.
Special graduate study in some branch of physics, either theoretical or experimental, under the direction of any professional member of the staff.

Polish

See Modern Languages, Literatures, and Linguistics, p. 92.

Portugese

See Modern Languages, Literatures, and Linguistics, p. 92.

Psychology

101 Introduction to Psychology: The Frontiers of Psychological Inquiry Fall. 3 credits. Students may not receive credit for both Psychology 101 and Education 110. Students who would like to take a discussion seminar should also enroll in Psychology 103.
M W F 10:10. J. Maas.

The study of human behavior. Topics include sleep and dreaming, brain control, psychological testing, perception, learning, motivation, abnormal behavior, psychotherapy, social psychology, and other aspects of applied psychology. Emphasis is on developing skills to critically evaluate claims made about human behavior.

103 Introductory Psychology Seminars Fall. 1 credit. Prerequisites: none but concurrent enrollment in Psychology 101 required. Limited to 400 students.
Hours to be arranged; 32 different time options. Staff.

A weekly seminar that may be taken in addition to Psychology 101 to provide an in-depth exploration of selected areas in the field of psychology. Involves extensive discussion and a term paper related to the seminar topic. Choice of seminar topics and meeting times will be available at fall registration.

123 Introduction to Psychology: Biopsychology Fall. 3 credits. May not be taken for credit by students who are registered in or have completed one or more courses offered by the Section of Neurobiology and

Behavior of the Division of Biological Sciences, or two or more biopsychology courses.

T R 9:05; sec to be arranged. E. Adkins, D. Regan, and staff.

A survey of behavior emphasizing evolutionary and physiological approaches, designed to introduce students to the interface between biology and psychology. Both human and nonhuman behavior is included, together with theoretical issues pertaining to the application of biological principles to human behavior. Films, discussion.

[128 Understanding Personality and Social Behavior Spring. 4 credits. Limited to 450 students. M W F 10:10, sec to be arranged. Staff. Not offered 1980-81.]

190 Thought and Intelligence Spring. 4 credits. Open to juniors and seniors in any field, or to freshmen and sophomores who have had at least one course in psychology.

M W F 9:05. Staff.

The concepts underlying the measurement of intelligence and the problems involved in interpreting such measurements are considered in the context of psychological studies of problem solving and thinking. Topics include: introspective accounts of thought, experiments on problem solving and concept formation, cross-cultural studies of thinking, the history of the concept of intelligence, reliability and validity of tests, heritability of intelligence, and recent relevant research.

[201 Introduction to Psychology as a Laboratory Science Fall. 3 credits. Prerequisite: one course in psychology (normally Psychology 101, 123, 128, or 190). High school credit in psychology may meet this prerequisite with permission of instructor. Staff. Not offered 1980-81.]

205 Perception Fall. 3 credits. Limited to 65 students.

M W F 10:10. J. Cutting.

Basic concepts and phenomena in the psychology of perception, with emphasis on the stimulus variables and sensory mechanisms involved. Visual and auditory perception are discussed in detail, and some attention is paid to other senses.

206 Psychology in Business and Industry (also Hotel Administration 314) Fall. 3 credits. Limited to 35 psychology students. Prerequisites: Psychology 101, 123, 128, or 190, or permission of instructor. Not recommended for upperclass students in ILR.

T 12:20, R 12:20-2. S. Davis.

The principles of psychology applied to industrial and business systems; personnel selection; placement and training; problems of people at work including evaluation, motivation, efficiency, and fatigue; and the social psychology of the work organization.

[207 Motivation Theory: Contemporary Approaches and Applications Fall. 4 credits. Prerequisite: an introductory psychology course; Psychology 201 is recommended but not required. Offered alternate years. Not offered 1980-81; next offered 1981-82.

T R 10:10-12:05; periodic demonstration-discussion sections. A. W. Boykin.

Models and research in human motivation are examined and integrated. Traditional approaches are used as departure points for the study of more current themes, such as intrinsic motivation and achievement motivation. Attention is given to how pertinent various themes are to real-life behavioral settings.]

209 Developmental Psychology Spring. 4 credits. Prerequisite: an introductory psychology course.

M W F 9:05; sec to be arranged. F. Keil.

A comprehensive introduction to current thinking and research in developmental psychology. Topics include perceptual and cognitive development in infancy and childhood, attachment, language development, Piagetian theory and research, moral development, cross-cultural perspectives, and socialization.

214 Introduction to Cognitive Psychology Fall. 3 credits. Prerequisite: one course in psychology.

T R 10:10-11:25. A. Walker.

An introduction to psychology emphasizing the perceptual and cognitive processes that underlie human behavior. The course is designed to introduce the student to topics such as perception, memory, language, thinking, development, problem solving, and decision making, and to discuss techniques for investigating problems in these areas.

[215 Introduction to Linguistics and Psychology

Fall. 3 or 4 credits. The 4-credit option involves a laboratory project or paper. Open to first-year students by permission of instructor. T R 12:20-2:15. Staff. Not offered 1980-81.]

275 Introduction to Personality Psychology Fall. 3 or 4 credits; the additional (or fourth) credit is given for attendance at the optional section meeting and the term paper. Prerequisite: an introductory psychology course.

T R 10:10-11:35; sec to be arranged. D. Bem.

An introduction to research and theory in personality psychology, emphasizing contemporary approaches. Topics include the dynamics, structure, and assessment of personality as well as personality development and change. Biological and sociocultural influences on personality are also considered.

277 Psychology of Sex Roles (also Women's Studies 277 and Sociology 277) Spring. 3 or 4 credits. Prerequisite: an introductory psychology course.

T R 10:10-11:30. S. Bem.

The course addresses the question of why and how adult women and men come to differ in their overall life styles, work and family roles, personality patterns, cognitive abilities, etc. This broad question is examined from five perspectives: (a) the psychoanalytic perspective, (b) the biological perspective, (c) the historical and cultural evolutionary perspective, (d) the child development perspective, and (e) the social-psychological and contemporaneous perspective. Each of these perspectives also bears on more specialized phenomena relating to the psychology of sex roles, including psychological androgyny, women's conflict over achievement, the male sex role, equalitarian marriage relationships, female sexuality, homosexuality, and transsexualism.

280 Introduction to Social Psychology (also Sociology 280) Spring. 3 or 4 credits. Prerequisite: an introductory psychology course.

T R 10:10-11:25. D. Bem.

An introduction to research and theory in social psychology. Topics include human processing of social information; social influence, persuasion, and attitude change; social interaction and group phenomena. The application of social psychological knowledge to current social problems will also be discussed. (The additional (or fourth) credit is given for attendance at the optional section meeting, and the term paper.)

281 Interpersonal Relations and Group Processes (also Sociology 281) Fall. 4 credits.

Lec, M W F 11:15; lab-disc, two-hour period to be arranged. L. Meltzer.

Shyness and assertiveness, productive and defensive communication, participation and alienation, conflict and harmony, social pressures, group decision-making, leadership, group emotionality, nonverbal communication, and social skills. The laboratory will involve the class in self-study exercises. Students also work outside of class, in groups of four or five, on a term project having two aspects: research on one of the above topics and self-study of the group processes which occur during the conduct of the project. The combination throughout the course of academic and

experiential approaches should develop sensitivity to group processes and to the effects we ourselves have on other persons.

289 Conformity and Deviance (also Sociology 289) Fall. 4 credits. Prerequisites: one course in psychology or sociology.

T R 2:30. R. Kraut.

What are the ways in which conformity pressures, in all their variations, can lead to deviance? To attempt an answer we will examine some of the conformity bases for run-of-the-mill, normal behavior, and then use the concepts developed to illuminate such behavior as mob violence, suicide, juvenile crime, and craziness.

[303 Learning Spring. 3 credits. Prerequisite: Psychology 201 or a 300-level laboratory course in psychology. T R 9:05. Staff. Not offered 1980-81.]

305 Visual Perception Fall. 3 or 4 credits depending on whether the student chooses to do an independent laboratory project. Prerequisite: 205 or permission of instructor.

T R 10:10. C. Krumhansl.

A detailed examination of theories and processes in visual perception. Topics will include the perception of color, space, and motion; perceptual constancies; adaptation; pattern perception; and aspects of perceptual learning and development.

[308 Perceptual Learning Fall. 3 credits. Prerequisite: Psychology 205 or 209 or 305 or permission of instructor. Not offered 1980-81.]

309 Development of Perception and Attention

Spring. 3 credits. Prerequisite: Psychology 205, 209, 214, 305, or permission of instructor. Not offered 1981-82.

M W F 10:10. A. Walker.

An ecological view of perceptual development: development of perception of objects, events, the spatial layout, pictures, and symbols. The level of the course is that of E. J. Gibson, *Perceptual Learning and Development*.

313 Perceptual and Cognitive Processes Spring. 3 credits. Prerequisite: Psychology 205 or 214, or permission of instructor.

T R 10:10-11:40. Staff.

Survey of research and theory in the area of perceptual and higher mental processes. Emphasis is on the human as an information processing system. Topics include visual information processing, pattern recognition, cognition, memory, and artificial intelligence.

314 The Social Psychology of Language Spring. 4 credits. Prerequisite: a course in linguistics or psycholinguistics and in social or personality psychology, or permission of instructor.

T R 2:30-4:25. H. Levin.

We are aware that one talks differently to children than to adults, to foreigners than to native speakers, to people we like than to those we detest, to people whose intelligence we respect compared to those we think are idiots. Speech varies by social setting, by the relationships between people, and by formality, friendship, affection; and purposes of the communication: deception, persuasion, propaganda, etc. What are the rules of social language? How do we acquire the abilities to vary language appropriately and to understand the meanings of such variations? We will attend not only to what is said but to the style of the language: for example, to paralanguage (e.g., intonation, hesitations, etc.) and to the structure (grammar and semantics) of speech.

316 Auditory Perception Spring. 3 or 4 credits (the 4-credit option involves a laboratory project or paper). Prerequisites: Psychology 205, 209, 214, or 215 (other psychology, linguistics, or biology courses could serve as prerequisite with permission of the instructor).

Lecs, T R 2:30–4:25; lab, hours to be arranged.
Staff.

Basic approaches to the perception of auditory information, with special consideration of complex patterns such as speech, music, and environmental sounds.

322 Hormones and Behavior (also Biological Sciences 322) Spring. 3 or 4 credits. (The 4-credit option involves a one-hour section once a week. Students will be expected to participate in discussion and read original papers in the field.) Prerequisites: one year of introductory biology plus a course in psychology or Biological Sciences 321. Limited to juniors and seniors; open to sophomores only by permission.

T R 10:10–11:30. E. Adkins and R. Johnston.
The relationship between endocrine and neuroendocrine systems and the behavior of animals, including humans. Major emphasis is on sexual, parental, and aggressive behavior.

324 Biopsychology Laboratory (also Biological Sciences 324) Spring. 3 credits. Limited to 25 juniors and seniors. Prerequisites: Psychology 201 or Biological Sciences 103–104 or Psychology 123 or Biological Sciences 321, and permission of instructor. S-U grades optional.

T R 1:25–4:25. Staff.
Experiments designed to provide research experience in animal behavior (including learning) and its neural and hormonal mechanisms. A variety of techniques, species, and behavior patterns are included.

325 Introductory Psychopathology Fall. 3 or 4 credits (the 3-credit option entails lectures, readings, and two exams; the 4-credit option requires an additional seminar-recitation meeting and a term paper). Enrollment in Psychology 327 is limited. Prerequisite: a course in introductory psychology. May be taken concurrently with Psychology 327 (for 3 credits in 325 and 2 credits in 327) with permission of instructor.

T R 12:20–2:15. R. Mack.
A survey of the various forms of psychopathology, child and adult, as they relate to the experiences of human growth and development. Presents a description of the major syndromes, investigations, theories of etiology, and approaches to treatment.

326 Biopsychology of Animal Behavior Fall. 4 credits. Prerequisite: Psychology 123 or an introductory biology course. Offered alternate years.

T R 2:30–4:25. Staff.
Causation, development, and evolution of behavior in animals, primarily birds and mammals. Content areas include communication and social behavior, courtship and mating, aggression, parental behavior, imprinting, and socialization.

327 Fieldwork in Psychopathology and the Helping Relationship Fall. 2 credits. Prerequisites: Psychology 325 or concurrent registration in 325 and permission of the instructor. Students do not enroll in advance for this course. Field placement assignments are made in Psychology 325 during the first two weeks of the semester. Students who have already taken Psychology 325 must contact the instructor during the first week of the semester. Enrollment is limited by the fieldwork placements available. Fee, \$20.

Hours to be arranged. R. Mack.
An introductory fieldwork course for students currently enrolled in, or who have taken, Psychology 325. In addition to fieldwork, weekly supervisory/seminar meetings are held to discuss fieldwork issues and assigned readings.

328 Continuing Fieldwork in Psychopathology and the Helping Relationship Fall or spring. 2 credits each term. Prerequisites: Psychology 325, 327, and permission of instructor. S-U grades only. May not be taken more than twice. Students do not

enroll in advance for this course. Students in Psychology 327 should inform their teaching assistant before the end of the semester of their desire to take Psychology 328. Students not currently in a field placement who want to take Psychology 328 should contact the instructor during the first week of the semester. Field placement assignments will be made during the first two weeks of the semester. Enrollment is limited by the fieldwork placements available. Fee, \$20.

Fieldwork and supervisory times to be arranged.
R. Mack and staff.
Designed to allow students who have begun fieldwork as part of Psychology 327 to continue their field placements, under supervision and for academic credit. A limited number of students may be allowed to begin their fieldwork with Psychology 328 but only with permission of the instructor.

[345 Afro-American Perspectives in Experimental Psychology (also Africana Studies 345)] Spring. 3 or 4 credits. Prerequisite: introductory course in psychology or AS&RC 171. Offered alternate years. Not offered 1980–81; next offered 1981–82.

T R 2:30–4:25, plus one hour to be arranged if taken for 4 credits. A. W. Boykin.
Designed to examine crucial conceptual, empirical, and philosophical issues in experimental psychology that are directly relevant to Afro-Americans. Traditional approaches are probed and evaluated. Alternative thrusts from a black perspective are entertained and critiqued. Finally, the research process is evaluated as a potential tool for analysis and action in black communities.]

350 Statistics and Research Design Fall. 4 credits. Prerequisite: a course in the behavioral sciences.

M W F 10:10. R. Darlington.
Devoted about equally to elementary applied statistics — both estimation and hypothesis testing — through two-way analysis of variance, and to general problems in the design and analysis of research projects.

361 Biochemistry and Human Behavior (also Nutritional Sciences 361) Fall. 3 credits. Prerequisites: Biological Sciences 101–102, Chemistry 103–104, Psychology 123, or permission of instructor.

M W F 11:15. D. Levitsky.
The course is intended to survey the scientific literature on the role of the brain and body biochemical changes as determinants of human behavior. The topics covered include action and effects of psychopharmacologic agents, biochemical determinants of mental retardation, biochemical theories of psychosis, effects of nutrition on behavior. A fundamental knowledge of human biology and chemistry is essential.

381 Person Perception and Impression Management (also Sociology 381) Spring. 4 credits. Limited to 25 students. Prerequisite: one course in social psychology.

T R 10:10–12:05. R. Kraut.
How do we learn about other people and influence what they learn about us? Person perception, attribution theory, impression management, and nonverbal communication are relevant topics. Seminar format.

383 Social Interaction (also Sociology 383) Spring. 4 credits. Prerequisite: a course in social psychology.

T R 2:30–4:30. D. Hayes.
Analysis of social behavior episodes, their detailed structure, and changes. Materials include chronobiological, ethnomethodological, and nonverbal interactional considerations. Extensive practice in analysis of filmed and taped interactions required.

384 Cross-cultural Psychology (also Sociology 384) Fall. 4 credits. Prerequisites: a course in psychology and one in either sociology or social or cultural anthropology; or permission of instructor.

M W F 12:20. W. W. Lambert.
A critical survey of approaches, methods, discoveries, and applications in emerging attempts to study human nature, experience, and behavior cross-culturally. Focus on studies of cognition, values, socialization, sociolinguistics, personality, attitudes, stereotypy, ideology, sociocultural development, and mental illness.

[385 Theories of Personality (also Sociology 385)] Spring. 4 credits. Prerequisite: Psychology 101, 128, 214, or 275, or permission of instructor. Not offered 1980–81.

M W F 12:20. W. Lambert.
An intermediate analysis of comparative features of the historically and currently important theories of personality, with an evaluation of their systematic empirical contribution to modern personality study, to psychology and to other behavioral sciences.]

[386 Human Ethology Spring. 4 credits. Prerequisites: a course in social psychology or animal social behavior or permission of instructor. Offered alternate years. Not offered 1980–81.

T R 2:30–4. R. Kraut and R. Johnston.
Biological and other approaches to human social behavior will be examined using naturalistic observation techniques. One emphasis will be on parallels between nonhuman vertebrates and humans. Topics include nonverbal communication, use of space, bonding, and interaction rituals.]

396 Introduction to Sensory Systems (also Biological Sciences 396) Spring. 3 credits. Prerequisites: an introductory course in biology or biopsychology, plus a second course in neurobiology and behavior or perception or cognition or biopsychology. Students will be expected to have elementary knowledge of perception, neurophysiology, and chemistry. S-U grades optional for graduate students only. No auditors. Offered spring 1981; next offered spring 1983 and each spring term thereafter.

T R 9:05; one-hour discussion to be arranged.
B. Halpern.
Both those characteristics of sensory systems which are common across living organisms and those sensory properties which represent adaptations of animals to particular habitats or environments will be studied. The principles and limitations of major methods used to examine sensory systems will be considered. Behavioral, including psychophysical, biophysical, neurophysiological, and anatomical, methods will usually be included.

402 Current Research on Psychopathology Spring. 4 credits. Prerequisite: Psychology 325.

T R 12:50–2:15; sec to be arranged. Staff.
Current research and theory on the nature and etiology of schizophrenia, the affective disorders, and psychopathy. Approaches from various disciplines are considered. Minimal attention to psychotherapy.

407 Selected Issues in Human Motivation Fall. 4 credits. Limited to 20 students. Prerequisites: 207 or 10 credits in psychology, and permission of instructor.

T 2–4:25. A. W. Boykin.
An in-depth probe of selected contemporary topics in the field of human motivation, such as motivation and academic achievement, intrinsic motivation, motivation in cognitive development. The course will combine instructor lectures and student presentations. Special topic for fall 1980: Intrinsic motivation.

410 Undergraduate Seminar in Psychology Fall or spring. 2 credits. Written permission of section instructor required for registration. Nonmajors may be admitted but psychology majors are given priority.

Hours to be arranged. Staff.
Information on specific sections for each term, including instructor, prerequisites, and time and place may be obtained from the Department of Psychology Office, 211 Uris Hall.

411 Memory and Human Nature Fall. 4 credits. Limited to 20 students. Prerequisite: Psychology 201 or 214 or permission of instructor.
T R 2:30-4. Staff.

Memory and other cognitive activities are considered in their natural and social context. Laboratory studies of memory are reviewed to the extent that they help us to understand ordinary mnemonic activities. Specific topics include memory for remote events and for one's childhood; for controversial and unacceptable material; for stories and conversations; for events; individual, developmental, and cultural differences in memory; effects of schooling and of specific skills.

416 Psychology of Language Fall. 4 credits. Prerequisite: Psychology 215 or permission of instructor.

M W F 9:05. F. Keil.
An advanced treatment of the nature of the human capacity for language. Topics include the nature of linguistic theory, syntax and semantics, aspects of language use (comprehension, memory and knowledge, thought and action, communication), and language acquisition.

422 Developmental Biopsychology Spring. 4 credits. Prerequisites: a course in introductory biology and a course in biopsychology or neurobiology (such as Psychology 123 or Biological Sciences 321).

M W F 9:05. B. Finlay.
Various aspects of the relation of the development of the nervous system to the unfolding of behavior are discussed. Topics include how growing neurons seek, recognize, and communicate with their targets; normal neuroembryology and the emergence of reflexive and complex behavior; how experience affects the developing brain and reorganizational capabilities of the young mammalian brain in response to trauma.

425 Brain and Behavior Fall. 3 or 4 credits; 4-credit option includes a discussion section and requires an additional paper. Prerequisites: a course in introductory biology and a course in biopsychology or neurobiology (such as Psychology 123 or Biological Sciences 321.) Not offered 1980-81; next offered 1981-82.

M W F 9:05. B. Finlay.
The relation between structure and function in the central nervous system is studied. Human neuropsychology and the contribution of work in animal nervous systems to the understanding of the human nervous system will be stressed. Some topics to be discussed include visual and somatosensory perception, the organization of motor activity, emotion and motivation, psychosurgery, and the neuropsychology of memory and language.]

426 Seminar and Practicum in Psychopathology Spring. 4 credits. Limited to 16 juniors or senior majors in psychology or the equivalent (such as HDFS). Prerequisites: Psychology 325; permission of instructor required in all cases. Not offered 1981-82.

T R 2:30-4:25; fieldwork to be arranged. R. Mack.
A seminar and fieldwork course for advanced students who have mastered the fundamental concepts of personality and psychopathology. An opportunity to explore in depth the various forms of psychopathology, etiology, and treatment, to discuss these in seminar, and to work with mental health professionals and those who seek their help.]

436 Language Development (also HDFS 436) Fall. 3 or 4 credits. Limited to 30 students.
Prerequisites: at least one course in cognitive

psychology, cognitive development, or linguistics. A course in linguistics is strongly recommended. Not offered 1980-81; next offered 1981-82.

T R 10:10-12:05. B. Lust.
A survey of basic literature in language development. Major theoretical positions in the field are considered in the light of studies in first-language acquisition of phonology, syntax, and semantics from infancy onward. Attention is given to models of sentence processing in perception, production, and memory. The acquisition of communication systems in nonhuman species such as chimps and birds and the fundamental issue of relations between language and cognition are also discussed.]

437 Human Behavior Genetics Fall. 4 credits. Limited to 25 students. Prerequisites: one year of college biology and two courses in psychology. Recommended: course in statistics. Offered alternate years. Not offered 1980-81; next offered 1981-82.

T R 12:50-2:15. R. Dworkin.
Research examining genetic influences on personality, cognitive abilities, and mental disorders is considered. Some attention is also paid to biochemical and physiological factors that may be involved in the gene-behavior pathway. The interaction of genetic and environmental influences in human behavior is a continuing theme.]

440 Sleep and Dreaming Spring. 4 credits. Limited to 15 students. Prerequisites: advanced undergraduate or graduate standing and permission of instructor. J. Maas. Not offered 1980-81.]

443 The Politics of I.Q. Fall. 3 credits. Limited to 20 students. Prerequisite: elementary knowledge of theories and measurement of intelligence from prior courses or independent reading and permission of instructor.

T R 2:30-4. H. Levin.
The research on the ethnic, racial, and sexual bases of intelligence will be taken as the primary example with which to discuss political and social influences on the choice of research topics, the methods of investigation, and the interpretation of results. Some insights about these issues are available from historical changes in the research and by the comparing the research in various countries, particularly the United States and Great Britain. The writings of Jensen, Herrnstein, Schockley, Burt, Eysenck, Kamin, and their critics will be studied. Novels by Koestler and C. P. Snow will be read. Three brief papers will be required. The genetics of intelligence will not be covered.

445 Research Contours of Black Psychology Spring. 4 credits. Prerequisites: Psychology 345, or twenty credits of behavioral sciences, or graduate standing, and permission of instructor. Offered alternate years.

T R 2:30-4:25. A. W. Boykin.
An in-depth probe of a selected topic in psychology that pertains directly to black Americans with heavy emphasis on the research process. The course will revolve around five major concerns: (1) critically appraising the relevant research and theorizing already in existence, (2) advancing alternative conceptual models whenever necessary, (3) formulating rigorous and heuristic research paradigms, (4) discussing implications and applications for community-level programs and institutions, and (5) developing a practical yet analytical understanding of research design, and methodology, and the dynamics of problem selection and data inference.

464 Motivation and Human Learning Spring. 4 credits. Prerequisites: Psychology 303 plus 307, or permission of instructor. Offered alternate years. Not offered 1980-81.]

465 Mathematical Psychology Spring. 4 credits. Prerequisites: one year of college mathematics (finite mathematics and/or calculus), a course in probability

or statistics, and a course in psychology. Offered even-numbered years. Not offered 1980-81; next offered 1981-82.

T R 10:10-11:40. J. Cunningham.
Mathematical approaches to psychological theory are discussed. Possible topics include choice and decision, signal detectability, measurement theory, scaling, and stochastic models.]

467 Seminar: The Examined Self—A Psychohistorical View Spring. 4 credits. Prerequisites: 9 credits of psychology including Psychology 325 or equivalent, and permission of instructor before course enrollment. H. Feinstein. Not offered 1980-81.]

468 American Madness Spring. 4 credits. Limited to 15 students. Prerequisite: Psychology 325 and permission of instructor.

T 12:20-2:15. H. Feinstein.
The seminar will be devoted to an analysis of insanity as a psychological and historical phenomenon. Selected writings by the mentally ill and their definers will be studied.

469 Psychotherapy: Its Nature and Influence Spring. 4 credits. Limited to senior psychology majors. Prerequisites: Psychology 325 or equivalent and permission of instructor before course enrollment. Not offered 1980-81; next offered 1981-82.

W 7:30-10:30 p.m. R. Mack.
A seminar on the nature of psychotherapy. Issues related to therapeutic goals, differing views of the nature of man, ethical concerns, and research problems also are considered. Presentations by therapists of differing orientations and experiential and role-play exercises may be an integral part of the seminar experience.]

470 Undergraduate Research in Psychology Fall or spring. 1-4 credits. S-U grades optional. Written permission from the staff member who will supervise the work and assign the grade must be included with the course enrollment material. Students should enroll in the section listed for that staff member. A section list is available from the Department of Psychology.

Hours to be arranged. Staff.
Practice in planning, conducting, and reporting independent laboratory, field, and/or library research.

471 Statistical Methods in Psychology I Fall. 4 credits. Prerequisite: Psychology 201 or equivalent, or permission of instructor.

M W F 11:15. J. Cunningham.
Basic probability, descriptive and inferential statistics. Topics include parametric and nonparametric tests of significance, Bayesian inference, correlation, and simple linear regression. The level of the course is that of W. L. Hays, *Statistics for Psychologists*.

472 Statistical Methods in Psychology II Spring. during the first 7 weeks only. 2 credits. Prerequisites: Psychology 471 or 350 or permission of instructor.

M W F 10:10. Staff.
Analysis of variance, experimental design, and related topics. The level of the course is that of G. Keppel, *Design and Analysis: A Researcher's Handbook*.

473 Statistical Methods in Psychology III Spring. during the last 7 weeks only. 2 credits. Prerequisite: Psychology 472 or permission of instructor.

M W F 10:10. R. Darlington.
General-linear-model approach to analysis of variance, analysis of covariance, and multiple regression, at the level of *Multiple Regression in Behavioral Research* by F. Kerlinger and E. Pedhazur.

475 Analysis of Nonexperimental Data Fall, during the first 7 weeks only. 2 credits. Prerequisite: Psychology 473 or permission of instructor. Offered odd-numbered years. Not offered 1980-81; next offered 1981-82.

T R 10:10–12:05. R. Darlington.

Correlational methods, factor analysis, canonical analysis, canonical reduction analysis, discriminant analysis, panel analysis, multiple comparisons, robust regression.]

[476 Representation of Structure in Data Spring. 3 credits. Prerequisite: one year of college mathematics (finite mathematics and/or calculus) and a course in the social sciences.

T R 10:10–11:40. Staff.

Spatial and discrete representations of preferences and psychological distances are discussed. Topics include unidimensional and multidimensional scaling, unfolding, individual differences scaling hierarchical clustering, and graph-theoretic analysis.]

478 Psychometric Theory Fall, during the first 7 weeks only. 2 credits. Prerequisite: Psychology 473 or permission of instructor. Offered even-numbered years.

T R 10:10–12:05. R. Darlington.

Statistical methods relevant to the use, construction, and evaluation of psychological tests.

480 Attitudes and Social Cognitions (also Sociology 480) Spring. 4 credits. Prerequisites: Psychology or Sociology 280, or two courses in psychology or sociology, or graduate standing. M W F 1:25. L. Meltzer.

An intensive analysis of theory, research, measurement, and practical implications concerning beliefs, attitudes, values, opinions, stereotypes, self-concepts, intentions, and other social cognitions.

481 Advanced Social Psychology (also Sociology 481) Fall. 4 credits. Limited to 30 students. Prerequisite: a course in social psychology or permission of instructor.

T R 10:10–11:25. D. Regan.

Selected topics in social psychology are examined in depth, with heavy emphasis on experimental research. Readings are usually original research reports. Topics discussed may include: social comparison theory, social and cognitive determinants of the emotions, cognitive dissonance, attribution processes, interpersonal attraction, and research methods in social psychology.

482 Death and Dying Spring. 4 credits. Limited to 40 juniors and seniors. Prerequisites: 6 credits in sociology or psychology.

Sec 1, T 2:30–4:25; sec 2, R 2:30–4:25. W. Collins.

Issues of death and dying in modern American society are explored, from the perspectives of psychology, sociology, and the health-related professions. Possible inadequacies in current practice are examined and alternatives discussed.

483 Socialization and Maturity (also Sociology 483) Spring. 4 credits. Limited to upperclass and graduate students or those who receive permission of instructor. Prerequisite: some work in psychology, sociology, and/or anthropology; some background in statistics is assumed.

T R 12:20–2:15. W. Lambert.

Representative theories of research on socialization at different ages are analyzed, focusing particularly on the underlying processes. The newer topic of personal and sociocultural maturity is also analyzed and its relation to socialization processes is evaluated in terms of recent evidence.

[484 Individual Differences and Psychological Assessment (also Sociology 484) Spring. 4 credits. Limited to upperclass students. Prerequisites: an introductory course in psychology or sociology and a course in statistics. Not offered 1980–81.

T R 10:10–12:05. D. Bem, R. Darlington.

An analysis of current methods and models for assessing individual and group differences. Particular emphasis is on the measurement of personality. Quantitative models for predicting behavior from assessment instruments are examined, and current controversial issues in assessment are discussed.]

486 Interpersonal and Social Stress and Coping (also Sociology 486) Fall. 4 credits. Limited to 25 upperclass students. Prerequisites: background in psychology and introductory statistics; or permission of instructor.

R 2:30–4:30. W. W. Lambert.

A critical review of work in intrapersonal, interpersonal, situational and sociocultural sources of stress, the major psychophysiological concomitants of such stress; resultant coping strategies and aids to coping. Data from laboratory, industry, and other cultures will be analyzed.

488 Research Practicum in Socialization (also Sociology 488) Spring. 4 credits. Prerequisites: two courses in social psychology or human development and one course in statistics, or permission of instructor.

R 2:30–4:25. U. Bronfenbrenner.

Supervised participation in field and experimental studies bearing on the impact of family support systems on socialization practices and outcomes. The work concentrates on the American phase of a project being conducted cooperatively in five industrialized societies.

489 Seminar: Selected Topics in Social Psychology and Personality (also Sociology 489) Fall. 4 credits. Limited to seniors. Prerequisites: one course in psychology and one course in sociology or permission of instructor.

Sec 1: T 2:30–4:25. L. Meltzer.

The specific topics of discussion vary, but the general emphasis is on a critical examination of the study of individuals in social contexts.

Sec 2: W 2–4:25. R. Dworkin.

Prerequisites: Psychology 275 or permission of instructor. Enrollment limited to 20. Preference given to junior and senior psychology majors. Selected topics in personality research and theory will be examined in depth. The topics to be discussed will include environmental influences on personality, life-span personality development, cognitive approaches to personality, and intentional personality change. A major goal of the seminar will be to attempt to integrate what has been learned about personality into a richer understanding of persons, as opposed to the more traditional focus on personality psychology on traits or variables considered in isolation.

490 Historical Roots of Modern Psychology (also Education 490; Human Development and Family Studies 490; Industrial and Labor Relations 470) Spring. 4 credits. Intended for sophomores, graduate students, majors, and nonmajors. Prerequisites: at least three courses in behavioral science, or permission of the instructor.

M W F 12:20–1:10. Staff.

A survey of the major historical antecedents of contemporary psychology, including the philosophical tradition (from Aristotle through the Enlightenment), the medical-therapeutic tradition, and the rise of modern science and experimental psychology. Scholars from across the University give presentations in their own specialties. Students do concentrate work in their own area of interest.

491 Principles of Neurobiology, Laboratory (also Biological Sciences 491) Fall. 4 credits. Limited to 36 students. Prerequisites: Biological Sciences 396 or Psychology and Biological Sciences 495 or written permission of instructors.

M W or T R 12:20–4:25. B. Land and staff.

Laboratory practice with neurobiological preparations and experiments, designed to teach the techniques, experimental designs, and research strategies used to study biophysical and biochemical properties of excitable membranes, sensory receptors, and the central nervous system transformations of afferent activity as well as the characteristic composition and metabolism of neural tissue. Theoretical content at the level of Jung's *Nerve and Muscle Excitation*.

494 Junior Honors Spring. 4 credits. Prerequisite: admission to the departmental honors program. Staff.

498 Senior Honors Dissertation Fall. 4 credits. Prerequisite: admission to the departmental honors program. Staff.

499 Senior Honors Dissertation Spring. 4 credits. Prerequisite: admission to the departmental honors program. Staff.

Advanced Courses and Seminars

Advanced seminars are primarily for graduate students, but with the permission of the instructor, they may be taken by qualified undergraduates. The selection of seminars to be offered each term is determined by the needs of the students.

A supplement describing these advanced seminars is available at the beginning of each semester and can be obtained from the department office. Except where indicated, the following courses may be offered either term, and carry 4 credits unless otherwise indicated.

502 Practicum in Article Writing (May not be taken by undergraduates for credit.)

510–511 Perception

512–514 Visual Perception

513 Learning

515 Motivation

517 Language and Thinking

518 Psycholinguistics

519–520 Cognition

521 Psychobiology

522 Topics in Perception and Cognition

523 Physiological Psychology

525 Mathematical Psychology

531 History of Psychology

535 Animal Behavior

541 Statistical Methods

543 Psychological Tests

544 Topics in Psychopathology and Personality

545 Methods in Social Psychology

547 Methods of Child Study

561 Human Development and Behavior

580 Experimental Social Psychology (also Sociology 580)

582 Sociocultural Stress, Personality, and Somatic Pathology (also Sociology 582)

583–584 Proseminar in Social Psychology (also Sociology 583–584)

585 Social Structure and Personality (also Sociology 585)

586 Interpersonal Interaction (also Sociology 586)

587 **Personality (also Sociology 587)**

588 **Social Change, Personality, and Modernization (also Sociology 588)**

591 **Educational Psychology**

595 **Teaching of Psychology**

596 **Improvement of College Teaching**

599 **How to Generate Stimuli and Control Experiments with a Small Computer** Fall. Prerequisite for undergraduates: written permission of instructor before course enrollment.

M 1:25-3:35. W. Hemsath.

Individuals who expect to use the EPIC computer facility, or other small computer facilities, should register for this course.

600 **General Research Seminar** 0 credits.

682 **Social Psychology (also Sociology 682)**

683 **Seminar in Interaction (also Sociology 683)**

684 **Seminar: Self and Identity (also Sociology 684)**

[685 **Seminar in Sex Differences, Sex Roles, and Sexuality (also Sociology 685)** Fall. Limited to 15 students. Not offered 1980-81.

R 2:30-4:25. S. Bem.]

690 **Nutrition and Behavior (also Nutritional Sciences 690)**

700 **Research in Biopsychology**

710 **Research in Human Experimental Psychology**

720 **Research in Social Psychology and Personality**

730 **Research in Clinical Neuropsychology** Limited to Clinical Neuropsychology Program trainees.

800 **Master's Thesis Research in Biopsychology**

810 **Master's Thesis Research in Human Experimental Psychology**

820 **Master's Thesis Research in Social Psychology and Personality**

900 **Doctoral Thesis Research in Biopsychology**

910 **Doctoral Research in Human Experimental Psychology**

920 **Doctoral Thesis Research in Social Psychology and Personality**

930 **Doctoral Research in Clinical Neuropsychology** Limited to Clinical Neuropsychology Program trainees.

Summer Session Courses

The following courses are also frequently offered in the summer session though not necessarily by the same instructor as during the academic year. Not all of these courses will be offered in a particular summer. Information regarding these courses and additional summer session offerings in psychology is available from the department before the end of the fall semester.

101 **Introduction to Psychology: The Frontiers of Psychological Inquiry**

124 **Introduction to Psychology: The Cognitive Approach**

128 **Introduction to Psychology: Personality and Social Behavior**

209 **Developmental Psychology**

215 **Introduction to Linguistics and Psychology**

281 **Interpersonal Relations and Small Groups (also Sociology 281)**

286 **Nonverbal Behavior and Communication (also Sociology 286)**

325 **Introductory Psychopathology**

381 **Social Psychology**

385 **Theories of Personality**

469 **Psychotherapy: Its Nature and Influence**

543 **Psychological Testing**

Quechua

See Modern Languages, Literatures, and Linguistics, p. 92.

Romance Studies

See Modern Languages, Literatures, and Linguistics, p. 92, and Department of Romance Studies, p. 101.

Romanian

See Modern Languages, Literatures, and Linguistics, p. 92.

Russian

See Modern Languages, Literatures, and Linguistics, p. 92, and Department of Russian Literature, p. 101.

Sanskrit, Serbo-Croatian, and Sinhala (Sinhalese)

See Modern Languages, Literatures, and Linguistics, p. 92.

Sociology

101 **Introduction to Sociology** Fall. 3 credits.

M W 12:20, plus one hour to be arranged.

K. Donow.

An introduction to basic aspects of social structure including culture, social roles, the nature of groups, and inequalities of wealth, honor, and power. Essential methods of social research are also covered, along with an overview of current research findings about American society.

103 **Myth and Image in Modern Society (also History of Art 105)** Fall. 3 credits.

T R 9:05, plus one hour to be arranged.

R. Goldsen, P. Kahn.

The course views myth as a universal human language. Its components are widely recognizable images and symbols, arranged in structures that validate the legitimacy of a society's moral order. The course, taught jointly by an artist and a sociologist,

invites students to analyze certain mythic forms in American society, from mass-produced myths of the media to modern art.

107 **Introduction to Sociology: Conflict and Cooperation** Spring. 3 credits. Limited to freshmen and sophomores.

M W F 10:10. R. M. Williams, Jr.

Are human societies fundamentally cooperative or conflictual? In what ways? Why? And with what consequences? Examination of contemporary sociological analyses and the views of such precursors as Hobbes, Marx, Sumner, and Simmel. Data from recent studies of conflict and conflict reduction are discussed.

141 **Introduction to Sociology: Applications to Policy** Fall. 3 credits.

M W F 10:10. S. Caldwell.

Concentrates on sociology applied to actual decisions by regulatory commissions, executive agencies, courts, Congress, and other public policymakers. How does sociology become useful? Who makes it useful? What effects do personal values have on its uses? How well does expert knowledge coexist with political process? For fall 1980, the course will cover topics such as welfare reform, teenage pregnancies, Social Security, daycare school effectiveness, a national family policy, and energy.

172 **Introduction to Sociology: Urban Society** Spring. 3 credits.

M W F 11:15. B. Bowser.

The sociological analysis of urbanism and urbanization. Alternative explanations of industrial urban development are assessed with a specific focus on historical and contemporary urban community studies that serve as models of social structure and group (class, ethnic, race) divisions. Trends in the United States and in other countries are also examined, using such information as a basis for considering contemporary problems and the urban future.

207 **Ideology and Social Concerns** Fall. 3 credits; 4-credit option available.

M W F 11:15. R. M. Williams, Jr.

Analysis of social and cultural bases of public policies at national, state, and local levels. Relates demographic, social, and cultural factors to the changing recognition of problems and to shifting modes of collective action, such as direct mobilization, legislation, administration, and adjudication. Public issues examined include affirmative action, civil rights, environmental regulation, military affairs, social security and income maintenance, health, medicine, bioethics, centralization, and local control. Deals with two basic dilemmas of social choice: the problem of the commons and the problem of collective action.

222 **Studies in Organizational Behavior: Regulating the Corporation (also I&LR 222)** Fall. 3 credits.

T R 10:10. R. Stern.

Public and private power from an organizational perspective. The resource dependence approach to organization-environment relations provides a framework for interpreting government attempts at the regulation of corporate behavior. Topics cover the structure and functioning of government regulatory agencies and corporate responses to regulation, including strategy, change, and political influence. The role of interest groups such as consumer or citizens' organizations is also considered. Research and case materials focus on the implementation of environmental protection, occupational health and safety equal opportunity, antitrust, and rate-setting regulations.

230 **Population Problems** Spring. 3 credits; 4-credit option available.

M W 12:20 and hour to be arranged. J. M. Stycos.

The practical and scientific significance of population

growth and composition. Fertility, migration, and mortality in relation to social and cultural factors and in relation to questions of population policy. National and international data receive equal emphasis.

238 American Women and the Female Professions, 1815–Present (also Women's Studies 238) Fall. 3 credits.

T R 2:30–4. J. Brumberg.
The historical evolution of the female professions in America, including prostitution, midwifery, nursing, teaching, librarianship, social work, and medicine. Lectures, readings, and discussions are geared to identifying the cultural patterns which fostered the conception of gender-specific work and the particular historical circumstances which created these different work opportunities. The evolution of "professionalism" and the consequences of professionalism for women, family structure, and American society are also discussed.

240 Personality and Social Change Spring. 3 credits (4-credit option available).

T R 2:30–3:45. B. C. Rosen.
An analysis of social and psychological factors that affect and reflect social change. Topics to be examined will include models of man and society, national character, modern melancholy, feminism, family and sex roles, industrialism, economic development, and psychocultural conflict.

242 Social Welfare in Europe and North America Spring. 3 credits. Prerequisite: at least one course in sociology.

M W F 9:05. S. Caldwell.
Review of the growth and consequences of modern welfare state policies in Europe and North America and how such policies reduce social and economic inequities. How do welfare policies differ under state socialist, democratic socialist, and mixed economy governments? How has the extension of welfare state policies affected political rights? Are there limits to the extension of social welfare? What can be learned from the successes and failures of particular programs in different nations?

243 Family (also HDFS 253) Fall. 3 credits.

T R 10:10 and hour to be arranged. B. C. Rosen.
A social and historical analysis of the family both in the West and cross-culturally. Specific areas examined include sex roles, socialization, mate selection, sex and sexual controls, internal familial processes, divorce, disorganization, and social change.

245 Inequality in America Spring. 3 credits (4-credit option available).

M W F 1:25. J. Kahl.
Recent trends in the unequal distribution of income, occupation, and education in the United States; inheritance of riches and of poverty; importance of ethnic membership; sex differences; deliberate attempts by government policy to alter these trends; evaluation of the "war on poverty."

252 Public Opinion Spring. 4 credits.

T R 9:05 and hour to be arranged. K. Donow.
Analysis of television as a social institution—how it defines social roles (e.g., race and sex) and alters the cultural habitat within which public opinion forms. New communications techniques and their social significance are analyzed.

255 Sociology of Science and Technology Fall. 3 credits (4-credit option available).

T R 2:30 and hour to be arranged. P. Allison.
How the growth of knowledge is facilitated and impeded by the social behavior of scientists, including competition, teamwork, communication, secrecy, conformity, and deviance: causes and consequences of scientific revolutions; factors affecting scientific careers; history of science as a social institution.

265 Hispanic Americans Spring. 3 credits (4-credit option available).

T R 2:30–4. H. Velez.
Analysis of the present-day Hispanic experience in the United States. An examination of sociohistorical backgrounds as well as the economic, psychological, and political factors that converge to shape and influence a Hispanic group-identity in the United States. Perspectives are developed for understanding the diverse Hispanic migrations, the plight of Hispanics in urban and rural areas, and the unique problems faced by the different Hispanic groups. Groups studied include Dominicans, Chicanos, Cubans, and Puerto Ricans.

277 Psychology of Sex Roles (also Psychology 277 and Women's Studies 277) Spring. 3 credits (4-credit option available). Prerequisite: any introductory course in psychology.

T R 10:10–11:30. S. Bem.
This course addresses the question of why and how adult women and men come to differ in their overall life styles, work and family roles, personality patterns, cognitive abilities, etc. This broad question is examined from five perspectives: (a) the psychoanalytic perspective, (b) the biological perspective, (c) the historical and cultural evolutionary perspective, (d) the child development perspective, and (e) the social-psychological and contemporaneous perspective. Each of these perspectives also bears on a number of more specialized phenomena relating to the psychology of sex roles, including psychological androgyny, women's conflict over achievement, the male sex role, equalitarian marriage relationships, female sexuality, homosexuality, and transsexualism.

280 Social Influence Processes: Attitude and Behavior Change (also Psychology 280) Spring. 3 or 4 credits. Prerequisite: an introductory psychology course.

T R 10:10–11:25. D. Regan.
Intended to provide an extensive review of the literature of social influence processes. Beginning with the effects of the mere presence of others on behavior, we will discuss theory and empirical research related to conformity, compliance, group decision making, and attitude change. The relationship between attitudes and behavior will be examined in detail, and application will be made to naturally occurring social influence situations.

281 Interpersonal Relations and Group Processes (also Psychology 281) Fall. 4 credits.

Lecs. M W F 11:15; 2-hour lab-disc to be arranged. L. Meltzer.
Shyness and assertiveness, productive and defensive communication, participation and alienation, conflict and harmony, social pressures, group decision-making, leadership, group emotionality, nonverbal communication, and social skills. The laboratory will involve the class in self-study exercises. Students also work outside of class, in groups of four or five, on a term project having two aspects: research on one of the above topics and self-study of the group processes which occur during the conduct of the project. The combination throughout the course of academic and experiential approaches should develop sensitivity to group processes and to the effects we ourselves have on other persons.

289 Conformity and Deviance (also Psychology 289) Fall. 4 credits. Prerequisite: one course in psychology or sociology.

T R 2:30. R. Kraut.
What are the ways in which conformity pressures, in all their variations, can lead to deviance? To attempt an answer we will examine some of the conformity bases for run-of-the-mill, normal behavior, and then use the concepts developed to illuminate such behavior as mob violence, suicide, crime, and craziness.

[307 Collective Behavior and Social Movements (also HDFS 307)] Fall. 3 credits (4-credit option available). Not offered 1980–81.

T R 2:30–4. G. Elder.
An inquiry into social behavior that breaks with institutionalized or conventional forms, such as acting crowds, riots, social movements, and revolution. Analysis of antecedent conditions, emergent forms, processes, and consequences. Historical and contemporary studies are covered.]

321 Field and Laboratory Techniques in Sociology Fall. 4 credits. Prerequisite: a course in sociology.

T R 10:10–11:25; lab, R 3–5. D. Hayes.
Foundations of sociological analysis: issues arising from using humans as data sources; the quality of our primary data; methods of its collection; research designs in wide use and their limitations; pragmatic considerations in doing research on humans, organizations, communities, and nations.

324 Organizations and Deviant Behavior (also I&LR 324) Spring. 3 credits. Limited to 40 students. Prerequisite: one or more courses in both sociology and psychology.

H. Trice.
Focus is on the relationship between organizations and deviant behavior. Covers (1) the nature and etiology of psychiatric disorders, particularly schizophrenia, the psychoneuroses, and psychosomatic disorders; (2) organizational factors related to these disorders and to the more general phenomena of role conflict and stress; (3) an examination of alcoholism as a sample pathology, in terms of personality characteristics and precipitating organizational factors; (4) evaluation of organizational responses to deviance; (5) the nature of self-help organizations such as Alcoholics Anonymous; and (6) the structure and functioning of the mental hospital.

325 Evaluating Statistical Evidence Spring. 4 credits.

M W F 10:10. R. McGinnis.
A first course in the use of statistical evidence in the social sciences. Theory is supplemented with numerous applications. Includes an introduction to multivariate causal analysis.

[348 Sociology of Law Fall. 4 credits. Not offered 1980–81.

M W 1:25 and hour to be arranged. J. Jacobs.
The subject matter and course materials vary. In 1979 the course focused on civil rights and civil liberties in the context of institutions of social control. The main theme is that the extension of constitutional rights to such "marginal" citizens as prisoners, mental patients, students, and soldiers has created something of a crisis in the authority for the institutions with which these groups are associated. The basis of institutional authority and order is explored in light of the drive to expand personal rights. Readings consist of a casebook of legal decisions and excerpts from legal and sociological studies.]

[352 Prisons and Other Institutions of Coercion Spring. 4 credits. Prerequisite: a course in the social sciences. J. Jacobs. Not offered 1980–81.]

[355 Social and Political Studies of Science (also Science, Technology, and Society 355)] Spring. 3 credits. Not offered 1980–81.

W 2:30–4:30. D. Nelkin.
A view of science, less as an autonomous activity than as a social and political institution. The focus is on its relationship to government, the media, religion, and education. Drawing from recent controversies over science, such questions as ethics and social responsibility in science, struggles to maintain internal control over research and over the teaching of science, and the concept of limits to inquiry are discussed.]

[356 Contemporary Sociology for Scientists and Engineers Spring. 4 credits. Prerequisite: elementary finite mathematics or consent of the instructor. R. McGinnis. Not offered 1980-81.]

357 Medical Sociology Fall. 4 credits. Prerequisite: a course in the social sciences. M W F 2:30. B. Edmonston.

Health, illness, death, and the health institutions from a sociological perspective. Factors affecting health care; organization of the medical professions; health and illness behavior; social epidemiology; and key issues in policies affecting the administration and delivery of medical care in the United States.

[364 Race and Ethnicity Spring. 3 credits (4-credit option available). Not offered 1980-81. M W F 10:10. Staff.

An examination of the importance of race and ethnicity in contemporary American society. Some review of historical background through such topics as the Old World roots of ethnic cultures, migration, slavery, and American responses to immigration. Of fundamental concern is the tension between assimilation and the persistence of racial and ethnic identities, traced through patterns of mobility, intermarriage, and organized crime. Blacks, Jews, Italians, and other ethnic groups are considered.]

365 Criminology Spring. 4 credits.

M W 2:30 and one hour to be arranged. J. Jacobs. This course examines crime as a social phenomenon. It takes both a historical and a cross-cultural approach in order to investigate the processes by which different societies generate different crime problems. Attention is paid to the historical evolution of criminology as a discipline and to the most prevalent theories of criminology and crime causation. Special attention is also placed on such topics as white-collar crime, organized crime, and youth gangs. In light of the analysis of crime as a social phenomenon various strategies of crime control are considered critically.

367 After the Revolution: Mexico and Cuba Fall. 4 credits. Prerequisites: two courses in the social sciences.

M W F 1:25. J. Kahl.

A comparison of the economic, political, and social development of Mexico and Cuba following their revolutions. Assigned readings will be in English.

378 Economics, Population, and Development (also Economics 378) Fall. 4 credits.

M W F 10:10. R. Avery.

An introduction to population from an economic perspective. Particular attention is paid to economic views of population size, fertility, mortality, and migration, and to the impact of population change on development, modernization, and economic growth.

381 Person Perception and Impression

Management (also Psychology 381) Spring. 4 credits. Limited to 25 students. Prerequisite: one course in social psychology.

T R 10:10-12:05. R. Kraut.

How do we learn about other people and influence what they learn about us? Person perception, attribution theory, impression management, and nonverbal communication are relevant topics. Seminar format.

383 Social Interaction (also Psychology 383)

Spring. 4 credits. Prerequisite: a course in social psychology.

T R 2:30-4:30. D. Hayes.

Analysis of social behavior episodes, their detailed structure, and changes. Materials include chronobiological, ethnomethodological, and nonverbal interactional considerations. Extensive practice in analysis of filmed and taped interactions required.

384 Cross-Cultural Psychology (also Psychology

384) Fall. 4 credits. Prerequisites: a course in psychology and one in either sociology or social or cultural anthropology; or permission of instructor.

M W F 12:20. W. W. Lambert.

A critical survey of approaches, methods, discoveries, and applications in emerging attempts to study human nature, experience and behavior cross-culturally. Focus on studies of cognition, values, socialization, sociolinguistics, personality, attitudes, stereotyping, ideology, sociocultural development, and mental illness.

385 Theories of Personality (also Psychology

385) Spring. 4 credits. Prerequisite: Psychology 101, 128, or 275 or permission of the instructor.

M W F 12:20. W. Lambert.

An intermediate analysis of comparative features of the historically and currently important theories of personality, with an evaluation of their systematic empirical contribution to modern personality study, to psychology, and to other behavioral sciences.

[386 Human Ethology (also Psychology 386)

Spring. 4 credits. Prerequisite: a course in social psychology or animal social behavior or permission of instructor. Offered alternate years. Not offered 1980-81.

T R 2:30-4. R. Kraut and R. Johnston.

Biological and other approaches to human social behavior will be examined using naturalistic observation techniques. One emphasis will be on parallels between nonhuman vertebrates and humans. Topics include nonverbal communication, use of space, bonding, and interaction rituals.]

404 Intermediate Sociological Theory (also Rural Sociology 404) Fall. 4 credits.

T R 10:10-12:05. P. Eberts.

An advanced undergraduate seminar for senior majors in sociology and rural sociology. The course will focus on (1) the central concepts of the sociological tradition; (2) major classical theorists (Marx, Weber, Durkheim, de Tocqueville) and contemporary counterparts; (3) application of the classical ideas in contemporary research.

420 Mathematics for Sociologists (also CRP 520) Fall. 1-4 credits.

M W 2:25-4:30; lab, F 2:25-4:30. R. McGinnis. Elementary matrix algebra, probability theory, and calculus.

422 Sociology of Industrial Conflict (also I&LR 425) Spring. 4 credits.

R. Stern.

The focus is on the variety of theoretical and empirical evidence available concerning social, economic, and political causes of industrial conflict. The manifestations of conflict such as strikes, labor turnover, absenteeism, and sabotage, and the influence of the environments in which they occur is emphasized.

423 Evaluation of Social Action Programs (also I&LR 423) Fall. 3 credits.

M W 11:15. H. Trice.

A consideration of the principles and strategies involved in evaluation research; experimental research designs, process evaluation, and adaptations of cost benefits and cost efficiency to determine the extent to which intervention programs in fields such as training and therapy accomplish their goals. The adaptation of these strategies to large social contexts, such as child guidance clinics, mental health clinics, and programs in the poverty areas such as Head Start is considered. Includes fieldwork and emphasizes assessment of program implementation.

424 Multivariate Analysis with Quantitative Data

Spring. 4 credits. Prerequisite: a college course in statistics (such as Sociology 325) and matrix algebra.

T R 10:10-11:40. S. Caldwell.

The general linear regression model with interval scaled variables. Detecting violations of assumptions of the model in real data and providing remedies. Both single and multiple equation models (including path analysis).

425 Categorical Data Analysis Fall. 4 credits.

Prerequisite: Sociology 424 or equivalent.

T R 10:10-11:45. P. Allison.

Techniques for including categorical (discrete) variables in multivariate models. Log-linear analysis of multidimensional contingency tables; dummy variable regression; logit, probit, and regression models with categorical dependent variables. Emphasis on applications.

[426 Policy Research: Uses, Methods, Case Studies (also Rural Sociology 426) Spring.

3 credits. Prerequisite: a course in multivariate statistics. T R hours to be arranged. Staff. Not offered 1980-81.]

427 The Professions: Organization and Control (also I&LR 427) Fall. 4 credits.

T R 1:25. R. Stern.

The professions (including medicine, law, and several others) are the cases used in this course to examine issues of occupational organization and control. Professional associations attempt to set standards of ethics and practice, regulate educational programs, maintain specific images, and control the supply of entrants to professions. How do such associations function and how successful is their attempt at regulation of professional conduct? How might the potential transformation of some professional associations into union-style organizations be interpreted? These issues are considered in the context of the role of professions in contemporary society.

429 Theories of Industrial Society (also I&LR

426) Fall. 4 credits. Prerequisites: I&LR 120 or any 100- or 200-level sociology course, and permission of instructor.

T R 8:30. S. Bacharach.

Some of the critical issues in social theory to be found in the works of Durkheim, Marx, Pareto, and Weber. Their views of man's relation to society are compared to the views of such literary figures as Balzac, Beckett, Camus, Flaubert, Goethe, Sartre, Stendhal, and Zola.

430 Social Demography Spring. 4 credits.

Prerequisites: junior class standing or permission of instructor.

T R 2:30-3:45. R. Avery.

A survey of the methods, theories, and problems of contemporary demography. Special attention is directed to the social determinants and consequences of fertility, mortality, and migration. The populations of both developed and developing areas are examined.

431 Techniques of Demographic Analysis Fall. 4 credits. Prerequisite: Sociology 230 or 330.

T R 1:25 and hour to be arranged. B. Edmonston.

A description of the nature of demographic data and the specific techniques used in their analysis. Mortality, fertility, migration, and population projection are covered, as well as applications of demographic techniques to other types of data.

434 Human Fertility in Developing Nations Fall.

4 credits. Offered alternate years. Prerequisite: Sociology 230 or permission of instructor.

T 2:30-4:25. J. M. Stycos.

A review of the major literature dealing with the social causation of variation in human fertility. Emphasis will be on international comparisons and on the methodology of field research.

[440 Educational Institutions Spring. 4 credits. Not offered 1980-81.

T R 10:10-11:35. Staff.

The role of educational institutions in industrialized societies is studied. The primary focus will be on the debate between those who see educational institutions as extending opportunity and assimilating marginal groups and others who see them as arenas of conflict in which privileged groups successfully struggle to maintain their advantages.]

441 Structure and Functioning of American Society Fall. 4 credits. Prerequisite: a course in sociology or permission of instructor.

M W F 9:05. R. M. Williams, Jr.
Analysis of a total societal system. Critical study of the institutions of kinship, stratification, the economy, the polity, education, and religion. Special attention is given to values and their interrelations, and to deviance and evasion. A survey of the groups and associations making up a pluralistic nation is included.

[445 Law and Social Theory Spring. 4 credits. Prerequisite: Sociology 348 or permission of instructor, or graduate standing. Not offered 1980-81.

T 3:35-5:30. J. Jacobs.
Major intellectual traditions contributing to what is loosely called the sociology of law. Attention is paid to the classical theorists—Weber, Durkheim, and Marx—as well as to contemporary American and European legal and sociological scholars. The underlying theme is the relationship of law to social order.]

[454 Religion and Secularism in Western Society Spring. 4 credits. Prerequisite: Sociology 101 or permission of instructor. Not offered 1980-81.

M W F 9:05. Staff.
The interrelationship of culture, society, and religion. Religion and social stratification, religion and economic and political institutions, social change and religion. The major emphasis will be on American society and American religious institutions.]

[462 Society and Consciousness Spring. 4 credits. Limited to 15 students. Prerequisite: permission of instructor. Not offered 1980-81.

Hours to be arranged. R. Goldsen.
An examination of the role of the social system in the formation of human consciousness.]

480 Attitudes and Social Cognitions (also Psychology 480) Spring. 4 credits. Prerequisite: Psychology or Sociology 280, or two courses in psychology or sociology, or graduate standing.

M W F 1:25. L. Meltzer.
An intensive analysis of theory, research, measurement, and practical implications concerning beliefs, attitudes, values, opinions, stereotypes, self-concepts, intentions, and other social cognitions.

481 Advanced Social Psychology (also Psychology 481) Fall. 4 credits. Limited to 30 students. Prerequisite: a course in social psychology or permission of instructor.

T R 10:10-11:25. D. Regan.
Selected topics in social psychology are examined in depth, with heavy emphasis on experimental research. Readings are usually original research reports. Topics discussed may include: social comparison theory, social and cognitive determinants of the emotions, cognitive dissonance, attribution processes, interpersonal attraction, and research methods in social psychology.

483 Socialization and Maturity (also Psychology 483) Spring. 4 credits. Limited to upperclass and graduate students or those who receive permission of instructor. Prerequisite: some work in psychology, sociology, and/or anthropology; some background in statistics is assumed.

T R 12:20-2:15. W. Lambert.
Representative theories of research on socialization at different ages are analyzed, focusing particularly on the underlying processes. The newer topic of

personal and sociocultural maturity is also analyzed and its relation to socialization processes is evaluated in terms of recent evidence.

[484 Individual Differences and Psychological Assessment (also Psychology 484) Spring. 4 credits. Prerequisites: introductory course in psychology or sociology and a course in statistics and junior standing. Not offered 1980-81.

T R 10:10-12:05. D. Bem, R. Darlington.
An analysis of current methods and models for assessing individual and group differences. Particular emphasis is on the measurement of personality. Quantitative models for predicting behavior from assessment instruments are examined, and current controversial issues in assessment are discussed.]

486 Interpersonal and Social Stress and Coping (also Psychology 486) Fall. 4 credits. Limited to 25 upperclass students. Prerequisite: background in psychology and introductory statistics; or permission of instructor.

R 2:30 4:30. W. Lambert.
A critical review of work in intrapersonal, interpersonal, situational and sociocultural sources of stress, the major psychophysiological concomitants of such stress; resultant coping strategies and aids to coping. Data from the laboratory, industry, and other cultures will be analyzed.

488 Research Practicum in Socialization (also Psychology 488) Spring. 4 credits. Prerequisites: two courses in social psychology or human development and one course in statistics, or permission of instructor.

R 2:30-4:25. U. Bronfenbrenner.
Supervised participation in field and experimental studies bearing on the impact of family support systems on socialization practices and outcomes. The work concentrates on the American phase of a project being conducted cooperatively in five industrialized societies.

489 Seminar: Selected Topics in Social Psychology and Personality (also Psychology 489) Fall. 4 credits. Limited to seniors. Prerequisites: one course in psychology and one course in sociology or permission of instructor.

Sec 1: T 2:30 4:25. L. Meltzer.
The specific topics of discussion vary, but the general emphasis is on a critical examination of the study of individuals in social contexts.

Sec 2: W 2-4:25. R. Dworkin.
Prerequisites: Psychology 275 or permission of instructor. Enrollment limited to 20. Preference given to junior and senior psychology majors. Selected topics in personality research and theory will be examined in depth. The topics to be discussed will include environmental influences on personality, life-span personality development, cognitive approaches to personality, and intentional personality change. A major goal of the seminar will be to attempt to integrate what has been learned about personality into a richer understanding of persons, as opposed to the more traditional focus on personality psychology on traits or variables considered in isolation.

491 Selected Topics in Sociology Fall or spring. 2-4 credits. Prerequisite: permission of instructor.
Hours to be arranged.

495 Honors Research: Senior Year Fall or spring. 4 credits. Limited to sociology majors. Prerequisite: permission of instructor.
Hours to be arranged. D. Hayes and staff.

496 Honors Thesis: Senior Year Fall or spring. 4 credits. Prerequisite: Sociology 495.
Hours to be arranged. D. Hayes and staff.

497 Social Relations Seminar (also Anthropology 495) Spring. 4 credits. Limited to seniors majoring in social relations.
Staff.

Graduate Seminars

These seminars are primarily for graduate students but may be taken by qualified advanced undergraduates who have permission of the instructor. Which seminars are to be offered any term is determined in part by the interests of the students, but it is unlikely that any seminar will be offered more frequently than every other year. Lists and descriptions of seminars are available from the department well in advance of each semester. The list below indicates seminars that are likely to be offered 1980-81, but others may be added. Students should check with the department before each term. All seminars are offered for 4 credits unless otherwise specified.

521 Organizational Behavior II (also I&LR 521) Spring. 3 credits.

R. Stern.
Formal organizations are studied from the perspectives of classical organization, theory, human relations theory, and comparative and cross-cultural analysis. Contemporary theories and quantitative approaches to organizational structure are also considered in some detail. Intended to be preliminary to more intensive work in organizational behavior.

523 Analysis of Data with Measurement Error Fall. 4 credits. Prerequisite: Sociology 424 or equivalent.

Hours to be arranged. P. Allison.
Multivariate statistical methods with explicit treatment of measurement error. Classical test theory, path analysis of unmeasured variables, econometric "errors-in-variables" models, confirmatory factor analysis, and Joreskog's general model for estimating linear structural relations (LISREL). Introduction to latent structure analysis. Emphasis on applications.

541 Social Organization and Change Spring. 4 credits. Prerequisite: graduate standing or permission of instructor.

M W 1:25-3:20. R. M. Williams, Jr.
Systematic review of theory and research, with emphasis on substantive knowledge and testable hypotheses. Subjects included are social processes, social structures, cultural content, and social and cultural change. Attention is given to the nature and size of the social system (small groups, communities, large organizations, societies) and also to both macro- and micro-social processes and properties (integration, authority, conformity, and deviance).

585 Social Structure and Personality (also Psychology 585) Fall. 4 credits.

Hours to be arranged. B. C. Rosen.
An analysis of the ways in which social and psychological factors interact to affect the development of personality, the rates of individual and group behavior, and the functioning of social systems.

603 Classical Theory—Marx, Weber, and Durkheim Fall. 4 credits.

J. Kahl.

632 Research Seminar in Population Spring. 4 credits.

R. Avery and B. Edmonston.

[645 Social Networks Spring. 4 credits. Not offered 1980-81.

Hours to be arranged. Staff.
An examination of the patterns of linkage between people, organizations, and institutions as constituting the foundation of social structure. These patterns and their implications are explored in areas such as the sociology of science and the study of power and influence. Theoretical and methodological issues receive equal attention.]

655 Latin American Society and Politics Spring. 4 credits.

R 2:30. J. Kahl.

656 Seminar in Family Studies: The History of the American Family (also Women's Studies 656 and HDFS 655) Spring. 3 credits. Students in endowed units must register for Women's Studies or Sociology 656; students in statutory units must register for HDFS 655.

Hours to be arranged. J. Brumberg. Considers the historical literature on change and variation in American family life and form, from the European background (sixteenth century) to the present. Reading, discussion and papers focus on the social, economic, political and cultural circumstances in the past which affected families and their relations to the larger society.

[683 Social Interaction (also Psychology 683)] Spring. D. Hayes, R. Kraut, L. Meltzer. Not offered 1980-81.]

[685 Seminar in Sex Differences, Sex Roles, and Sexuality (also Psychology 685 and Women's Studies 685)] Fall. Limited to 15 students. R 2:30-4:25. S. Bem. Not offered 1980-81.]

691-692 Directed Research Fall or spring. Up to 4 credits, to be arranged. Prerequisite: permission of instructor.

695 Thesis Research Fall or spring. Up to 6 credits, to be arranged. Prerequisite: permission of thesis director.

Spanish

See Modern Languages, Literatures, and Linguistics, p. 92, and Department of Romance Studies, p. 101.

Swahili

See Africana Studies and Research Center, p. 126.

Tagalog, Tamil, Telugu, and Thai

See Modern Languages, Literatures, and Linguistics, p. 92.

Theatre Arts

Freshman Seminars

120 Modern Drama and Modern Production Fall and spring. 3 credits.
T R 12:20-1:35. Fall, J. Haarstick; spring, K. Solow. A study of modern European drama in its philosophical contexts. Topics covered will include: surrealism, existentialism, Theatre of the Absurd, Theatre of Cruelty, and others. Reading will include works by Breton, Artaud, Genet, Sartre, Ionesco, Beckett, Camus, Brecht, and Weiss.

130 Tragedy and Comedy Fall and spring. 3 credits.
M W F 9:05. R. Short. Studies in the development of Western drama from the Greek classics through the twentieth century. The major units of the course will be Greek tragedy, Roman comedy, Shakespearean tragedy, the commedia dell'arte, Racinean tragedy, sentimental comedy, Romantic tragedy, social comedy, and tragicomedy. The plays will be studied in the contexts of the social, theoretical, and critical movements of the periods.

140 Script and the Stage Fall and spring. 3 credits.
M W F 9:05. P. Auslander.

A chronological investigation of some of the highlights of world dramatic literature. The course will focus on the following questions: What are the major trends in the history of dramatic literature? What is the relationship between dramatic literature and theatrical production? Such dramatists as Aeschylus, Plautus, Tourneur, Ibsen, Beckett, and Stoppard will be considered.

Acting

280 Introduction to Acting Fall or spring. 3 credits. Each section limited to 16 students. Prerequisite: registration only through department roster in 104 Lincoln Hall.

Sec. 1, M W 2:30-4:25 (primarily for prospective majors and those planning further performance courses), A. Van Dyke. Sec. 2, M W 10:10-12:15, M. Hillyer. Sec. 3, T R 12:20-2:15, R. Rachele. Sec. 4, T R 12:20-2:15, G. Patnaude. Sec. 5, T R 12:20-2:15, J. Dewey. Sec. 6, T R 12:20-2:15, M. Harris. Sec. 7, T R 12:20-2:15, M. Reed.

Introduction to the problems and techniques of acting through history, theory, and practice. Appreciation of the actor's function as a creative artist and social interpreter through selected readings, lectures, and play attendance. Examination of the actor's craft through improvisation and exercises in physical, emotional, and intellectual skills.

281 Acting I—Basic Technique Fall or spring. 3 credits. Each section limited to 14 students. Prerequisites: Theatre Arts 280; audition and registration only through department roster in 104 Lincoln Hall.

Sec. 1, M W 2:30-4:25, E. Johnson. Sec. 2, T R 10:10-12:05. Staff.

Practical exploration of the actor's craft through improvisation, exercises in physical and psychological action; problems in the use of imagination, observation, and research as tools for exploring the script.

380 Acting II—Characterization Fall or spring. 3 credits. Each section limited to 12 students. Prerequisites: Theatre Arts 281; permission and registration only through department roster in 104 Lincoln Hall.

Sec. 1, T R 2:30-4:25, A. Van Dyke. Sec. 2, M W 10:10-12:05, staff.

Scene study and improvisational work designed to develop consistency in the student's use of communicative action and emotional support in creating a role. Emphasis on text analysis, use of imagery in handling dramatic language, and exercises in emotional and sense memory.

282 Introduction to Voice and Speech for Performance Fall. 2 credits. Limited to 12 students. Primarily for department majors. Prerequisite: registration only through department roster in 104 Lincoln Hall.

T R 2:30-4:25. E. Johnson. Study and practice in the correct physical use of the voice through exercises in relaxation, alignment, breath control, support, and freedom in exploring range and resonance potential.

283 Voice and Speech for Performance Spring. 2 credits. Limited to 12 students. Primarily for department majors. Prerequisites: Theatre Arts 282; registration only through department roster in 104 Lincoln Hall.

T R 2:30-4:25. E. Johnson. Development of vocal technique with additional emphasis on articulation and basics of Standard American pronunciation.

575 American Mime Orientation I Fall. 2 credits. Prerequisite: Theatre Arts 280. Students enrolled in American Mime must contact the Department of

Theatre Arts about supplies one month before the beginning of classes. Registration only through department roster in 104 Lincoln Hall.

F 2:30-4:25. P. Curtis and other teachers from the American Mime Theatre.

American Mime is a unique performing art created by a particular balance of playwriting, acting, moving, pantomime, and theatrical equipment. It is a complete theatre medium defined by its own aesthetic laws, terminology, techniques, script material, and teaching methods, in which nonspeaking actors, in characterization, perform the symbolic activities of American Mime plays through movement that is both telling and beautiful.

576 American Mime Orientation II Spring. 2 credits. Prerequisite: Theatre Arts 575 or permission of instructor. Registration only through department roster in 104 Lincoln Hall.
F 2:30-4:25. P. Curtis and other teachers from the American Mime Theatre.
A continuation of Theatre Arts 575.

730 Dramatic Text Analysis Fall or spring. 2 credits; may be repeated for credit.

M W F 1:15-2:15. Fall, E. Johnson; spring, J. Haarstick. An examination of selected works of dramatic literature for the theatre artist. Intensive study of the play's text for techniques in interpretation, character development, plot articulation, and the aesthetics of prose and poetry for performance.

751 Rehearsal and Performance Fall. 2 credits. Limited to students in M.F.A. Professional Actor Training. Repeated for credit.
Staff.
Study, development, and performance of assigned roles.

752 Rehearsal and Performance Spring. 2 credits. Limited to students in M.F.A. Professional Actor Training. Repeated for credit.
Staff.
Study, development, and performance of assigned roles.

780 Acting Technique I Fall and spring. 2 credits. Limited to students in First-Year M.F.A. Professional Actor Training. Repeated for credit.

Sec. 1, M W 2:30-4:25; S. Cole. Sec. 2, T R 2:30-4:25. Staff.
Study and practice of fundamental techniques and methodologies. Exploration and use of the basic dynamics of the actor's organism.

781 Acting Technique II Fall and spring. 2 credits. Prerequisite: Theatre Arts 780. Limited to students in Second-Year M.F.A. Professional Actor Training. Repeated for credit.

M T W R 2:30-4:25. Staff.
Development and integration of the personal dynamic into the total acting process.

782 Voice Technique I Fall and spring. 2 credits. Limited to students in the First-Year M.F.A. Professional Actor Training. Repeated for credit.

M T W R F 10:45-2. E. Johnson. Emphasis on correct use of the vocal instrument through exercises designed to achieve the freedom, flexibility, control, and power required for the professional actor.

783 Voice Technique II Fall and spring. 2 credits; may be repeated for credit. Prerequisite: Theatre Arts 782. Limited to students in Second-Year M.F.A. Professional Actor Training.

T R 10:45-12. E. Johnson. Practice and development of technique. Use of text to explore vocal action and voice as an integral part of developing characterization.

784 Speech Technique I Fall and spring. 2 credits. Limited to students in First-Year M.F.A. Professional Actor Training. Repeated for credit.

T R 10:45–12. A. Van Dyke.
Ear training; sound designation of vowels, consonants, and diphthongs through exercises; sound symbolization through use of the International Phonetic Alphabet (IPA); eradication of regionalisms; development of Standard American speech.

785 Speech Technique II Fall and spring. 2 credits. Prerequisite: Theatre Arts 784. Limited to students in Second-Year M.F.A. Professional Actor Training. Repeated for credit.
M W 10:45–12. A. Van Dyke.
Refinement of sound distinction and execution; study of dramatic texts in prose and poetry to develop techniques in scansion, emphasis rhythm, range, and melody.

Directing

398 Directing I Fall. 3 credits. Prerequisites: Theatre Arts 354, 280, and permission of instructor.
M W 2:30–4:25. R. Shank.
An exploration of the role of the director through study and exercises: the process of conceptualization; use of visual, temporal, and dramatic values for interpretation of the script; directorial text analysis; applied project.

498 Directing II Spring. 4 credits. Prerequisites: Theatre Arts 398 and permission of instructor.
M W F 2:30–4:25. R. Shank.
Use of movement and space; character development techniques; rehearsal process; production procedures; applied project in performance.

499 Projects in Directing Fall or spring. Credit to be arranged. Prerequisite: permission of the department staff.
R. Shank.
The planning and execution of directing projects by advanced students in the public performance facilities of the Department of Theatre Arts.

Theatre Design/Technology

250 Fundamentals of Theatre Design/Technology Fall or spring. 4 credits. Not offered to first-term freshmen.
Lecs, T R 12:20–2:15; project lab, W 2:30–4:25. Staff.
An introduction to the design/technical experience in the theatre with particular attention to the unique collaboration of director, designer, and technician. The visual principles of designing scenery, costumes, and lighting will be related to production techniques by which designs are realized on the stage. This course is prerequisite to all further courses in the design/technology of scenery, costumes, and lighting.

260 Visual Concepts for the Theatre Fall. 3 credits.
T R 10:10–12:05. V. Becker.
The exploration through practical experimentation of the graphic expression of ideas and concepts within the theatre. Particular emphasis upon developing skill in visualization and communication as a foundation for stage design and directing.

261 Production Concepts for the Theatre Spring. 3 credits.
T R 10:10–12:05. R. Archer.
Lectures, exercises, and projects focused on developing concepts of space, scale, proportion, and texture as definitions of theatrical environments. Particular emphasis upon manipulating and controlling space as the key to understanding the design and technical objectives of theatre production.

362 Lighting Design and Technology Spring. 4 credits. For both majors and qualified nonmajors in related fields. Prerequisite: Theatre Arts 250 or permission of instructor.

M W 12:20–2:15. R. Dressler and K. Golden.
An intensive study of stage lighting practices and their associated technology as an expressive theatrical design medium.

363 Advanced Lighting Design and Technology Fall. 4 credits. Prerequisite: Theatre Arts 362 and permission of the instructor. May be repeated for credit.
M W 12:20–2:15. R. Dressler.
An exploration of lighting design and technology on a more advanced level with particular stress upon project work and practical design assignments.

364 Scene Design and Technology Fall. 4 credits. For both majors and qualified nonmajors in allied fields. Prerequisite: Theatre Arts 250 or permission of the instructor.
M W 12:20–2:15. R. Dressler and R. Archer.

A study of the basic problems of design and technology of scenery for the stage. The course will consider the design process, use of research and imagery, techniques of communicating, materials and their associated tools, and a wide variety of styles of construction and of handling those styles.

365 Advanced Scene Design and Technology Spring. 4 credits. Prerequisite: Theatre Arts 364 and permission of the instructor. May be repeated for credit.
M W 12:20–2:15. R. Dressler and R. Archer.
An exploration of scene design and technology on a more advanced level with particular stress upon project work and occasional inclusion of practical design assignments.

366 Costume Design and Technology Fall. 4 credits. For both majors and qualified nonmajors in allied fields. Prerequisite: Theatre Arts 250 or permission of the instructor.
M W 12:20–2:15. S. Perkins.

An introduction to costume design and technology which includes the analysis of the play and its characters, color, line, silhouette, figure drawing, rendering techniques, research, draping, drafting, period pattern-making and construction, and applied crafts.

367 Advanced Costume Design and Technology Spring. 4 credits. Prerequisite: Theatre Arts 366 and permission of the instructor. May be repeated for credit.
M W 12:20–2:15. S. Perkins.
An exploration of costume design and technology on a more advanced level with particular stress upon project work and occasional inclusion of practical design assignments.

Theatre Laboratories

All theatre arts laboratories are offered either term. Theatre Arts 155 is offered fall term; 156 spring term. These courses may be repeated for credit. Acting, directing, and managerial and technical responsibilities in production of theatre and dance are under the supervision of the department staff. These laboratories may also be taken on a noncredit basis.

Theatre Arts 155 and 156 may be added or dropped without penalty at any time during the semester.

Rehearsal and Performance Laboratories

155 Rehearsal and Performance Fall. 1–2 credits; 1 credit per production experience per term up to 2 credits per term. S-U grades only. Limited to students who are assigned roles after tryouts at the department's scheduled auditions, or managerial positions through interviews. Students should add this course only after they have been assigned roles or managerial positions.
T. Rattray.
The study, development, and performance of a role in departmental productions.

156 Rehearsal and Performance Spring. 1–2 credits; 1 credit per production experience per term up to 2 credits per term. S-U grades only.
T. Rattray.
See course description for Theatre Arts 155.

Theatre Design/Technology Laboratories

151 Production Laboratory I Fall or spring. 1–2 credits. May be repeated for credit. Orientation meeting in Willard Straight Theatre at 7:30 p.m. on the first day of instruction. K. Golden and S. Lang.
Practice and instruction in the basic techniques of construction and operation of scenery, costumes, and/or lighting. Instruction is within the Theatre Cornell production organization under the direct supervision of design/technology faculty.

251 Production Laboratory II Fall or spring. 1–3 credits. Prerequisite: Theatre Arts 151 or permission of the instructor. May be repeated for credit.
Orientation meeting in Willard Straight Theatre at 7:30 p.m. on the first day of instruction. K. Golden and D. Fletcher.

Practical production experience which involves specialized instruction and responsibility in positions such as light board operator, wardrobe mistress, set or properties crew head, etc., as well as preparatory work in specific areas of specialized construction. Instruction is within the Theatre Cornell production organization under the supervision of design/technology faculty.

351 Production Laboratory III Fall or spring. 1–3 credits; May be repeated for credit. Prerequisite: Theatre Arts 251 or permission of the instructor.
Orientation meeting in Willard Straight Theatre at 7:30 p.m. on the first day of instruction. K. Golden and J. King.

Practical production experience which requires advanced knowledge and responsibility in positions such as major crew head, assistant to a faculty or graduate designer or technician, or a major design or technical position on a smaller production. Instruction is within the Theatre Cornell production organization under the supervision of design and technology faculty.

451 Production Laboratory IV Fall or spring. 1–4 credits. Prerequisite: Theatre Arts 351 or permission of the instructor. May be repeated for credit.
Orientation meeting in Willard Straight Theatre at 7:30 p.m. on the first day of instruction. K. Golden.
Practical production experience requiring a major responsibility in the full design or technical direction of an aspect of a produced play within the Theatre Cornell production organization under the supervision of design/technology faculty.

Playwriting

348 Playwriting Fall and spring. 4 credits. Prerequisite: permission of instructor.
T 2–4:25. Playwright-in-residence, R. Tavel.
A laboratory for the discussion of student plays. Each student is expected to write two or three one-act plays, or one full-length play.

349 Advanced Playwriting Fall and spring. 4 credits. May be repeated for credit.
T 2–4:25. Playwright-in-residence, R. Tavel.
A continuation of Theatre Arts 348.

Theatre History, Literature, and Theory

240 Introduction to the Theatre Fall or spring. 3 credits.
M W F 11:15. J. Haarstick.
A survey of the elements of drama and theatre intended to develop appreciation and rational enjoyment of the theatre in all its forms. Not a production course.

300 Independent Study Fall or spring. 1–4 credits; no more than 4 credits each semester. May be repeated for credit. Limited to upperclass students. Prerequisite: permission of the department staff member directing the study.
Staff.
Individual study of special topics.

325 Classic and Renaissance Drama (also Comparative Literature 352) Fall. 4 credits.
T R 2:30–3:45. T. Murray.

Readings in world drama from the Greeks to Shakespeare, including dramatists such as Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, Seneca, Calderón, Kyd, Marlowe, Shakespeare, Jonson, and Webster, with emphasis on the Greek and Elizabethan periods.

326 European Drama, 1660 to 1900 (also Comparative Literature 353) Spring. 4 credits.
T R 10:10–11:25. S. Williams.

Readings from major dramatists from Molière to Ibsen, including such authors as Racine, Congreve, Sheridan, Schiller, Goethe, Hugo, Büchner, Gogol, Turgenev, Zola, Hauptmann, and Chekhov.

327 Modern Drama (also Comparative Literature 354) Spring. 4 credits.
M W F 1:25 A. Caputi.

Readings from major dramatists of the twentieth century, including Ibsen, Chekhov, Strindberg, Shaw, Pirandello, Ionesco, Brecht, Beckett, and Pinter.

333 History of the Theatre I Fall. 4 credits.
M W F 11:15. S. Williams.

A survey of the characteristics of primitive theatre and of theatrical styles and production modes in Classical Greece and Rome, medieval Europe, Renaissance England, France, Italy, and Spain.

334 History of the Theatre II Spring. 4 credits.
M W F 11:15. S. Williams.

A survey of theatrical styles and production modes from 1660 to 1914. Among the periods considered are the English Restoration, the eighteenth and nineteenth centuries in England, France and Germany, and the international modernist theatre. The course will conclude with a brief survey of the Oriental Theatre, with particular reference to its influence on European symbolism.

[335 History of the Theatre III Fall. 4 credits. Not offered 1980–81.
S. Williams.

A survey of the modern and contemporary theatre, from expressionism to the present day. Particular emphasis will be placed on the experimental aspects of the modern theatre, on the work of key innovators such as Appia, Craig, Brecht, Piscator, Brook and Grotowski, and on contemporary, experimental theatre groups.]

336 American Drama and Theatre Fall. 4 credits.
T R 12:20–1:35. Staff.

A study of the American theatre and representative American plays with emphasis on drama from O'Neill to the present.

424 Play and Period. Spring. 4 credits.
Prerequisites: permission of instructor, and some upper-level work in literary analysis or theatre history.
T R 2:30–3:45. S. Williams.

An intensive study of the theatrical and cultural background of a play being performed in the department's mainstage season. The course will include a detailed study of the play itself, of the other works of the dramatist and, where relevant, of other plays of the time. Students will be expected to complete a dramaturgical assignment.

[425 Shakespeare: King Lear and The Stages of History (also English 425) Not offered 1980–81.]

434 Theatre and Society Spring. 4 credits.
Prerequisite: permission of the instructor. Students will be expected to have had some upper-level experience in one of the following areas: literary analysis, theatre history, sociology, psychology, history, anthropology, or philosophy.
T R 2:30–3:45. S. Williams and staff.

An examination of the role theatre has played in the social and political life of Western civilization. Topics to be covered will include: the theatre and the church, the theatre as an agent of social change, censorship and the theatre, the theatre and revolution, and theatre and education. Students will be encouraged to use this examination to arrive at their own definitions of the importance of the mimetic instinct in human society.

436 Theory of the Theatre and Drama Fall. 4 credits.
M W F 1:25. Staff.

A study of various theories of dramatic form and the theatrical presentation from Aristotle and Horace to Artaud and Brecht, with emphasis on the romantic and modern period, including Lessing, Hugo, Wagner, Strindberg, Stanislavsky, Appia, Craig, Yeats, Langer, Frye, Burke, Fergusson, and Grotowski.

[442 Ibsen and Chekhov (also Comparative Literature 472) Not offered 1980–81.]

495 Honors Research Tutorial Fall or spring. 1–4 credits. Prerequisites: senior standing and departmental acceptance as an honors candidate.
Staff.
Methods and modes of research for honors project.

496 Honors Thesis Project Fall or spring. 1–4 credits. Prerequisites: senior standing and departmental acceptance as an honors candidate.
Staff.

Preparation and presentation of honors thesis or practicum.

[632 Critical Writing Workshop Not offered 1980–81.]

[633 Seminar in Theatre History Not offered 1980–81.]

636 Seminar in Dramatic Criticism Fall. 4 credits.
R 2:30–5. S. Williams.
Subject for 1980: Contemporary drama.

637 Seminar in Dramatic Theory Spring. 4 credits.
W 2:30–5. Staff.

[638 Seminar in Theory of the Theatre Not offered 1980–81.]

672 Dramatic Literature: Tragedy and Its Near Relatives (also English 672) Spring. 4 credits.
A. Caputi.

[699 Seminar in the Theories of Directing Not offered 1980–81.]

[700 Introduction to Research and Bibliography in Theatre Arts Not offered 1980–81.]

880 Master's Thesis

880.1 Master's Thesis: Design Seminar

880.2 Master's Thesis: Design Graphics

880.3 Master's Thesis

990 Thesis and Special Problems in Drama and the Theatre

Related Courses in Other Departments

Myths of Greece and Rome (Classics 150)

The Greek Experience (Classics 211)

The Roman Experience (Classics 212)

Comedy (Comparative Literature 312)

Shakespeare (English 227)

Shakespeare (English 327)

Seminar in Shakespeare (English 427)

Schiller (German Literature 354)

Dance

200 Introduction to Dance Fall or spring. 3 credits. Concurrent enrollment in a technique class at the appropriate level is required.

T R 4:40–6. J. Desmond.
Basic dance technique, improvisation, and composition readings in dance aesthetics and twentieth-century dance history.

205 Contemporary Composers and Choreographers Spring. 3 credits.

J. Desmond, D. Borden, and M. Monk.
Introduction to some work of choreographers and their collaborative composers from the late 1950s to the present. Included are analysis of work by Cunningham and Cage, Cunningham and Tudor, Meredith Monk, Laura Dean, Lucinda Childs, Philip Glass, and others. Film and video tapes are used. Two papers and choreographic projects in a contemporary style.

210 Beginning Dance Composition and Music Resources (also Physical Education 210) Fall. 4 credits. Prerequisites: intermediate technique level and permission of instructor; for dance majors: Music 141. Concurrent enrollment in a technique class at the appropriate level is required.

T R 4:40–6. Staff.
This course is designed to develop resources in movement and in music as it relates to dance. Students will prepare studies concerned with use of space, time, body design, and dynamics. Various approaches to the structuring of these elements will be the basis for the study of form as it applies to dance and music.

211 Beginning Dance Composition and Music Resources (also Physical Education 211) Spring. 4 credits. Prerequisite: Theatre Arts 210.
Staff.
A continuation of 210.

301 Dance Technique (also Physical Education 301) Fall or spring. 1 credit; may be repeated for up to 4 credits. Credit will be given for enrollment only in intermediate and advanced sections. S-U grades only.
Contact Women's Physical Education for schedule of sections. J. Desmond and M. Bryan.

[307 Asian Dance and Dance Drama (also Asian Studies 307) 3 credits. Not offered 1980–81.]

310 Advanced Dance Composition (also Physical Education 310) Fall. 4 credits. Prerequisite: Theatre Arts 211.
Staff.
Problems in composition for groups and music resources for dancers.

311 Advanced Dance Composition (also Physical Education 311) Spring. 4 credits.
Staff.
Further problems in composition for groups.

312 Physical Analysis of Movement Fall. 3 credits. Hours to be arranged.
J. Morgenroth.

This course is an examination of human movement, with particular attention to dance movement. Readings will be supplemented by laboratory work in movement analysis.

[314 History of Dance] 3 credits. Not offered 1980-81.]

[315 History of Dance] 3 credits. Not offered 1980-81.]

[316 Human Biology for the Performing Arts] 5 credits. Not offered 1980-81.]

318 Historical Dances Spring. 2 credits. Prerequisite: elementary ballet or elementary modern technique.

Staff.

A sampling of the social dances from the Renaissance to the present with emphasis on pinpointing basic differences in movement styles and customs in the various periods. A majority of class time will be spent learning and performing the dances.

410 Individual Problems in Composition (also Women's Physical Education 410) Fall or spring. 3 credits. Prerequisite: Theatre Arts 311.

Staff.

Individual problems in composition.

[418 Seminar in History of Dance] Fall or spring. 3 credits. Prerequisites: Theatre Arts 315 or permission of instructor. Not offered 1980-81.

Staff.

See instructor for description of the particular aspect of history of dance to be investigated.]

Cinema

374 Introduction to Film Analysis: Meaning and Value Fall. 4 credits.

T R 10:10-11:30. G. Perez.

Consideration of the ways films generate meaning and of the ways we attribute meaning and value to films. Discussion ranges over commercial narrative, documentary, and experimental film types.

375 History and Theory of the Commercial Narrative Cinema Fall. 4 credits. Fee for screening expenses, \$5 (this fee is paid in class).

T R 2-4:25. G. Perez.

Within the context of history, the description, interpretation, and evaluation of commercial narrative films as works of art and as objects for mass consumption. Emphases include "the articulation of a cinematic language," "realism," "popular art," and "modernism." Contemporary methods of analysis such as the auteur theory and semiotics are introduced.

[376 History and Theory of Documentary and Experimental Film] Fall. 4 credits. Fee for screening expenses, \$5 (this fee is paid in class). Not offered 1980-81; next offered 1981-82.

T R 2-4:25. D. Fredericksen.

Documentary figures covered include Vertov, Flaherty, Grierson, Ivens, Lorentz, Riefenstahl, Capra, and Jennings. Within the history of experimental film, emphases are the avant-garde of the twenties, the movement toward documentary in the thirties, and American experimental film from the forties to the present.]

377 Fundamentals of 16-mm Filmmaking Fall or spring. 4 credits. Limited to 12 students each semester. Prerequisite: permission of instructor. Fee for maintenance costs, \$10 (this fee is paid in class). The average cost to each student for materials and processing is \$100.

M W F 2-4:25. M. Rivchin.

The mechanics and expressive potential of 16-mm filmmaking, including nonsynchronous sound. Each student makes two short films, and retains ownership of them. No prior filmmaking experience is assumed.

[378 Russian Film of the 1920s and French Film of the 1960s] Spring. 4 credits. Prerequisite: Theatre Arts 375. Fee for screening expenses, \$5 (this fee is paid in class). Not offered 1980-81.

T R 2-4:25. D. Fredericksen.

An intensive treatment of two distinct periods of innovation in film history and theory. Emphasis is on the relationship between theory and practice. Major figures include Eisenstein, Pudovkin, Vertov, Dovzhenko, Godard, Truffaut, Resnais, Robbe-Grillet, Bresson, and Rivette.]

[379 International Documentary Film from 1945 to the Present] Spring. 4 credits. Prerequisite: Theatre Arts 376. Fee for screening expenses, \$5 (this fee is paid in class). Not offered 1980-81; next offered 1981-82.

T R 2-4:25. D. Fredericksen.

Emphases on the contemporary international documentary as a sociopolitical "force," as an ethnographic tool within and without a filmmaker's own culture, and as an artistic form with a distinct history and set of "theoretical" questions. Major figures, structures, and movements covered include Jennings, Rouquier, Leacock, Malle, Rouch, Jolanas, national film boards, "Challenge for Change," "direct cinema," "cinema verité," and "revolutionary" documentary from the Third World.]

475 Seminar in the Cinema I Fall. 4 credits.

W 2:30-5:30. G. Perez.

Topic for fall 1980: The use of point of view in film.

477 Intermediate Film Projects Spring. 4 credits. Limited to 4 students. Prerequisites: Theatre Arts 377 or equivalent, and permission of instructor. Fee for maintenance costs, \$10 (this fee is paid in class). The average cost to each student for materials and processing is \$150; students retain ownership of their films.

Hours to be arranged. M. Rivchin.

The development and completion of individual projects, with emphasis on personal and documentary modes, including preparation of an original script or storyboard; direction; cinematography; sound recording; editing; and follow-through to a composite print.

Inter-University Center for Critical and Film Studies in Paris

Cornell is part of a consortium supporting the center. For course listings and information about participation, contact Professor Fredericksen, 112 Lincoln Hall. Prerequisites for participation in the program are: fluency in French and completion of Theatre Arts 374, 375, and 376.

Ukrainian and Vietnamese

See Modern Languages, Literatures, and Linguistics, p. 92.

Yiddish

See Department of Near Eastern Studies, p. 108.

Special Programs and Interdisciplinary Studies

Africana Studies and Research Center, p. 126.
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Africana Studies and Research Center

131 Swahili Fall. 4 credits. No prerequisites.
 T W 10:10. A. Nanji.
 Beginning Swahili; grammar part 1.

132 Swahili Spring. 4 credits. Prerequisite: Swahili 131 or previous study of the language.
 M W 11:15. A. Nanji.
 Elementary reading and continuation of grammar.

133 Swahili Fall. 4 credits. Prerequisites: Swahili 131 and 132.
 A. Nanji.
 Advanced study in reading and composition.

134 Swahili Spring. 4 credits. Prerequisites: Swahili 131, 132, and 133, or permission of instructor.
 A. Nanji.
 Advanced study in reading and composition.

137 Afro-American Writing and Expression Fall. 4 credits.
 T R 10:10. H. Fuller.

Designed to promote clear and effective communication skills, using black-oriented materials as models for writing assignments and oral discussions.

138 Applied Writing Methods on Afro-American Topics Spring. 3 credits.
 T R 11:15.

A writing skills course which explores traditional and nontraditional research sources, using Afro-American experiences as the primary subject matter.

171 Infancy, Family, and the Community Fall. 4 credits.
 T R 3:10. W. Cross.

Survey of key psychological dimensions of the black experience covering such issues as (1) race and intelligence; (2) black identity; (3) black family structure; (4) black English; (5) black middle class; and (6) nature of black psychology.

172 Teaching and Learning in Black Schools Spring. 4 credits. Intended for freshmen and sophomores.

T R 3:10. W. Cross.

A course designed for freshmen and sophomores that will be devoted to the history and contemporary issues of black education, such as the struggle for black studies, the development of independent black grammar, and problems of public schools in black communities.

190 Introduction to Modern Political Systems Fall or spring. 4 credits.

M W 1:25. O. Agyeman.

An analytical interpretation of the sociopolitical and economic systems of sub-Saharan African countries as well as the nationalist struggles in southern Africa.

202 Swahili Literature Fall. 4 credits. Prerequisite: Swahili 134.
 A. Nanji.

Students gain mastery over spoken Swahili and are introduced to the predominant Swahili literary forms.

203 History and Politics of Racism and Segregation Fall. 4 credits.

T R 12:20-1:25. C. Mbata.

A cross-cultural study in historical context of the evolution of racist thought and practice in southern Africa and North America.

204 History and Politics of Racism and Segregation

Spring. 4 credits.

T R 12:20-1:25. C. Mbata.

The patterns of racism and segregation are dealt with in a historical context, using southern Africa and North America as case histories. Study is undertaken within a theoretical framework that broadly defines racism and segregation and their implications.

219 Issues in Black Literature

Fall. 4 credits.
An examination of literature written for black children, including an analysis of the literature as it pertains to black life from 1960 to the present. Students write a pamphlet containing their essays, fiction, and poetry, and compile a bibliography of literature for black children.

231 Black Political Thought in the United States

Fall. 3 credits.

M W F 3:10-4. M. Marable.

This is an introductory course that will review and analyze the major political formulations developed and espoused by black people in the struggle for liberation. Such themes as slave resistance, nationalism, Pan-Africanism, emigration, anti-imperialism, socialism, and the political thought of black women will be discussed. Black political thought will be viewed in its development as responses to real conditions of oppression and exploitation.

283 Black Resistance: South Africa and North America

Fall. 4 credits.

C. Mbata.

A study of black political movements in South Africa and North America and their responses to the situations of race relations that formed the contexts of their operations.

285 Black Drama

Spring. 3 credits.

M W 1:25.

This course is intended to serve as an introduction to the history of black drama, and to provide the means through which students can cultivate their interests in dramaturgical criticism and production techniques. Each student in the course will read a number of black plays, write a critical paper on black drama, and participate in the production of a play.

290 The Sociology of the Black Experience

Fall. 3 credits.

M W F 3:10-4. J. Turner.

An introductory course to the sociology of the black experience, and to the field of Afro-American studies. Required for all undergraduate students majoring at the Africana Center.

301 Seminar: Psychological Aspects of the Black Experience

Spring. 4 credits. Prerequisites:

permission of instructor.

W. Cross.

Existing research is used to raise specific questions about new cultural political awareness in the black community. The focus is on individual conversion experiences within the context of social movements. The transformations of political groups (for example, Black Panther Party) and outstanding activists and intellectuals (such as Malcolm X) are used as reference points for analytical discussion of theory.

[302 Social and Psychological Effects of Colonization and Racism

Spring. 4 credits. Staff.

Offered alternate years. Not offered 1980-81.]

[303 Blacks in Communication Media and Film Workshop

Spring. 3 credits. Not offered 1980-81.

The focus is on the general theory of communications, the function of media in an industrialized society, and the social, racial, and class values implied in the communication process. There are group writing projects, a term paper, and the screening of significant American and Third World films.]

344 Neocolonialism and Government in Africa: Problems of Africanization and Development

Fall. 3 credits.

T R 1:25. O. Agyeman.

Designed to study the problems of government in Africa with emphasis on Ghana, Nigeria, Kenya, Uganda, Tanzania, Zambia, and Malawi.

345 Afro-American Perspectives in Experimental Psychology (also Psychology 345)

Spring. 3 or 4 credits. Prerequisite: an introductory course in psychology or AS&RC 171. Offered alternate years.

A. W. Boykin.

346 African Socialism and Nation Building

Spring. 4 credits.

An exploration and critical analysis of the various theories of African socialism as propounded by theorists and practitioners. Those ideas, extending from Nyerere's Ujamaa (for example, traditional social and economic patterns of African society) to Nkrumah's Scientific Socialism (such as the desirability and practicality of the Marxian type of socialism in Africa), are compared.

351 Politics in the Afro-Caribbean World; An Introduction

Fall or spring according to demand. 4 credits.

A study of the social, political, economic, and psychological forces that have shaped Caribbean societies.

352 Pan-Africanism and Contemporary Black Ideologies

Spring. 4 credits.

A historical study of Pan-Africanism that reviews and analyzes the literature and activities of early black Pan-African theorists and movements.

360 Ancient African Nations and Civilizations

Fall. 3 credits.

T R 12:20-1:20. J. Higginson.

An introduction to African history beginning with early civilizations in pre-European Africa.

361 Afro-American History (from African Background to the Twentieth Century)

Fall. 3 credits.

M W F 10:10. M. Marable.

Designed to explore major themes of the black historical experience in America from African origin to the twentieth century. A major concern is the changing status of black people over time and their attempts to cope with bondage, racism, circumcision, and oppression.

370 Afro-American History: The Twentieth Century

Spring. 3 credits.

T R 2:30-3:35. R. Harris.

An exploration of major themes of the black historical experience in America during the twentieth century. The socioeconomic, political, and cultural condition of Afro-Americans is assessed, after their presence in this country for more than three hundred and fifty years.

381 Contemporary African History

Spring. 3 credits.

M W 12:20-1:25. J. Higginson.

A survey of the present problems on the African continent as they appear from 1500 to the present time. Important topics include the impact of the Atlantic slave trade, the European Scramble of 1884, various forms of African resistance to colonial occupation to 1914, and the prospects of protracted social unrest in Africa south of the Zambezi River.

382 Comparative Slave Trade of Africans in the Americas

Spring. 3 credits.

T R 1:25-2:30. J. Higginson.

The focus is on eighteenth- and nineteenth-century slave societies in Virginia and South Carolina in North America and the eighteenth-century slave societies in San Domingue or Haiti and to some extent in Jamaica. The slave society in Cuba during the latter part of the nineteenth century is studied.

400 Political Economy of Ideology and Development in Africa

Spring. 4 credits.

T R 11:15. O. Agyeman.

The course explores the processes of the historical underdevelopment of Africa, drawing upon the assumptions of the "underdevelopment" theory. It then takes up the problems of development by examining the different ideologies and strategies extant and by highlighting the interaction of political and economic forces. Case studies are drawn from Ghana, Kenya, and Tanzania.

[410 Black Politics and the American Political System

Fall. 4 credits. Not offered 1980-81.

The course is designed to engage students in a survey and analysis of the theoretical and empirical basis of black politics in America. It is a sociohistorical investigation and evaluation of the variety of practical political activities among black people in the United States.

420 Social Policy and the Black Community in the Urban Economy

Spring. 4 credits. Offered alternate years.

J. Turner.

422 African Literature

Spring. 4 credits.

The main focus is on the basic themes in the twentieth-century literature produced by Africans south of the Sahara.

[425 Advanced Seminar in Black Theatre

Fall. 4 credits. Not offered 1980-81.

The course involves the study and production of the total black theatre.]

431 History of Afro-American Literature

Fall. 4 credits.

H. Fuller.

An extensive examination of the impact that Afro-American literature has had on describing, explaining, and projecting the Afro-American experience from 1619 to the present.

432 Modern Afro-American Literature

Spring. 4 credits.

H. Fuller.

A study of fiction by black writers, focusing on the political and sociological component that influenced the development and growth of black writing in relationship to literary themes and attitudes current in specific periods and movements from post-World War I to the present.

460 History of African Origins of Major Western Religions

Fall or spring. 4 credits. Prerequisite:

sophomore status or permission of instructor.

Y. ben-Jochannan.

The course is designed to develop an understanding of the basic origins of the philosophical, theosophical, and magical-religious teachings responsible for Judaism, Christianity, and Islam.

[465 Black Critique: Towards Defining and Developing a Black Aesthetic

Spring. 4 credits.

Not offered 1980-81.

A study of aesthetic, moral, and cultural values and judgments that black people can develop, recognize, and viably respect as black aesthetics.]

475 Black Leaders and Movements in Afro-American History

Spring. 4 credits.

T R 3:35-4:25. R. Harris.

A comprehensive analysis of the personalities, ideas, and activities central to the struggle for Afro-American liberation, ranging from eighteenth-century figures to the present time. Rebellion, emigration, assimilation, nationalism, accommodation, protest, cultural pluralism, separation, integration, and revolution are some of the central issues.

483 Themes in African History

Fall. 4 credits.

M W 1:25-3:20. C. Mbata.

A study of selected themes in African history, making use of work done in related disciplines. Until further notice the selected topic will be "Women in African history."

485 Racism, Social Structure, and Social Analysis Seminar Spring. 4 credits.

W 2-4:25. J. Turner.

An examination of the social structure of American society and the relationship of racial and class categories to social stratification. An analysis of power structures and the social salience of socioeconomic connections of governmental decision makers and the corporate structure is developed.

490 Advanced Reading and Research Seminar in Black History Spring. 4 credits.

M W 1:25. C. Mbata.

Designed to help students acquaint themselves with the available sources of information and materials in black history, as well as make the maximum use of their own inclinations and interests in unearthing the material and creating a body of comprehensible conclusions and generalizations out of it.

Note: May be taken to fulfill requirements for a major in African or Afro-American studies.

495 Political Economy of Black America Spring. 4 credits.

F 12:20-2:15. M. Marable.

An examination of the role that black labor has played in the historical development of United States monopoly, capitalism, and imperialism. Emphasis is on the theory and method of political economy, and a concrete analysis of the exploitation of black people as slave labor, agricultural labor, and proletarian labor.

498-99 Independent Study 498, fall; 499, spring.

Hours to be arranged. Africana Center faculty. For students working on special topics with selected readings, research projects, etc., under the supervision of a member of the Africana Studies and Research Center faculty.

505 Workshop in Teaching About Africa

4 credits. Prerequisites: AS&RC 203 and 204, or AS&RC 360 and 361, or permission of instructor. Offered alternate years.

C. Mbata.

[510 Historiography and Sources: The Development of Afro-American History Fall.

4 credits. Prerequisite: upperclass or graduate standing, or permission of instructor. Not offered 1980-81.

T R 11:15. R. Harris.

Through a critical examination of the approach, methodology, and philosophy of major writers in this field such as James W. C. Pennington, George Washington Williams, W. E. B. DuBois, Carter G. Woodson, John Hope Franklin, Benjamin Quarles, Lerone Bennett, Jr., and Vincent Harding, the evolution of Afro-American history is traced from its origin to the present. The nature and purpose of Afro-American history, especially the role of the black historian in the context of a racist and oppressive society, is analyzed. Attention is given to sources for studying black history, and each participant fashions a conceptual framework for application to the materials and evidence of the black experience in America.]

[515 Comparative Political History of the African Diaspora 4 credits. Prerequisites: upperclass or graduate standing, or two of the following courses:

AS&RC 203, 204, 283, 360, 361, 475, 484, 490. Offered alternate years. Not offered 1980-81.]

[520 Historical Method, Sources and Interpretation Fall. 4 credits. Prerequisites:

upperclass or graduate standing, or two of the

following courses: AS&RC 203, 204, 361, 475, 484, 490.

C. Mbata.

Offered alternate years. Not offered 1980-81.]

[550 Transnational Corporations in Africa and Other Developing Countries Spring. 4 credits.

Prerequisites: upperclass or graduate standing, or permission of instructor. Not offered 1980-81. Examines the role of transnational enterprises as an economic and political factor in the Third World, their relations with the host government and their interaction with both the private and public sectors of the economy of the host country. Special emphasis on Africa and Latin America.]

[551 Political History of Social Development in the Caribbean 4 credits. Offered according to demand. Prerequisite: upperclass or graduate standing or permission of instructor. Not offered 1980-81.]

Prerequisites: upperclass or graduate standing or permission of instructor. Not offered 1980-81.]

571 Seminar: Psychological Issues in the Black Community Fall. 4 credits. Prerequisite: permission of instructor.

W. Cross.

A critical examination of existing theory and research on identity development and identity transformation in Afro-American life, including black identity metamorphosis that occurs within the context of social movements. Particular attention is given to (1) the interface between social systems and identity development and maintenance; (2) dual consciousness; (3) functions of identity in daily life; (4) conversion and deconversion within the contexts of the contemporary black movement; (5) the psychohistorical implications of unidimensional theories black self-concept; (6) the relationships among identity, behavior, and ideology.

698-699 Thesis 698, fall; 699, spring. Limited to Africana Studies and Research Center students.

Africana Center faculty.

Biology and Society

Biology and Society I: The Biocultural Perspective (Anthropology 301, Biological Sciences 301, and Biology and Society 301) Fall.

Biology and Society II: Biology, Society, and Human Values (Anthropology 302, Biological Sciences 302, and Biology and Society 302) Spring.

Biomedical Ethics (Biological Sciences 205 and Philosophy 245) Fall.

Environmental Ethics (Biological Sciences 206 and Philosophy 245) Spring.

375 Independent Study Fall or spring. 1-4 credits each item.

Hours to be arranged. Staff.

400 Senior Seminar. Human Fertility in Developing Nations (also Sociology 434) Fall.

4 credits. Prerequisite: Sociology 230.

T 2:30-4:25. J. M. Stycos.

A review of the major literature dealing with the social causation of variation in human fertility. Emphasis will be on international comparisons and on the methodology of field research.

401 Senior Seminar. Biomedical Research, Regulations, and Ethics: A Delicate Balance Fall.

4 credits. Prerequisite: Anthropology 301-302, or Biological Sciences 301-302, or Biology and Society 301-302, or permission of the instructor. Course topic offered alternate years.

T 2:30-4:25. J. Fessenden-Raden.

A study of the "creative" tension between biomedical research and society brought about by Congressional project-specific funding; regulations

on human and animal experimentation, recombinant DNA research, laboratory safety; citizen participation on advisory councils; and citizens' rights to a healthful life. The scientific, economic, philosophical, moral, political, and safety issues will be explored through specific examples.

402 Senior Seminar. Biomedical Research, Regulations, and Ethics: A Delicate Balance

Spring. 4 credits. Prerequisite: Biology and Society 401. Course topic offered alternate years.

T 2:30-4:25. J. Fessenden-Raden.

A case study of a specific area selected during the fall semester. Students participate in research and presentation of materials relevant to their specific backgrounds and interests. Outcome will be a National Academy of Sciences-style report.

403 Senior Seminar in Social Demography (also Sociology 430) Fall. 4 credits. Prerequisite: junior standing or permission of the instructor.

Hours to be arranged. B. Edmonston.

The aim of this course is to give a broad outline of population studies in the context of the social and biological sciences. Emphasis will be placed on substantive relationships and the results of demographic analysis rather than on demographic methods. The course format will be lecture and discussion.

College Scholar Program

The College Scholar Program is described in the *Announcement of Academic Information*.

College Scholar 397 Independent Study Fall or spring. 1-4 credits. Prerequisite: permission of program office.

College Scholar 499 Honors Research Fall or spring. 4-8 credits; a maximum of 8 credits may be earned for honors research. Prerequisite: permission of program director. Each participant must submit a brief proposal approved by the honors committee.

College Scholar 346 The Roots of Greek Civilization (also Near Eastern Studies and Government 352) Fall. 4 credits. Limited enrollment.

T R 12:20. Martin Bernal.

Independent Major Program

The Independent Major Program is described in the *Announcement of Academic Information*.

Independent Major 351 Independent Study Fall or spring. 1-4 credits. Prerequisite: permission of program office.

Independent Major 499 Honors Research Fall or spring. 4-8 credits; a maximum of 8 credits may be earned for honors research. Prerequisite: permission of program director. Each participant must submit a brief proposal approved by the honors committee.

Program of Jewish Studies

101 Jewish Contributions to Western Culture Fall. 3 credits. A Freshman Seminar

T R 2:30-3:45. S. Zipperstein.

A study of the literary evidence illustrating significant influences which Judaism has had upon Western civilization—in the development of biblical monotheism, the birth of Christianity, medieval philosophy, and modern religious existentialism. Pertinent Jewish texts are considered both in their own historical and cultural context and insofar as they had an effect on the predominantly Christian culture of Western society at large.

Related Courses Sponsored by Other Departments

[Tolerance and Intolerance: The Image of the Jew in Western Civilization (Comparative Literature 320) Not offered 1980-81.]

[Literature of the Holocaust. (Comparative Literature 323) Not offered 1980-81.]

[Yiddish Literature in Translation (German 350) Not offered 1980-81.]

[The Shtetl in Modern Yiddish Fiction in English Translation (German 375 and Near Eastern Studies 375) Not offered 1980-81.]

[Topics in Yiddish Literature (German 377 and Near Eastern Studies 377) Not offered 1980-81.]

[The Jewish Problem as Political Problem (Government 371) Not offered 1980-81.]

Jewish Workers in Europe and America, 1789-1948 (ILR 381)

Man and His Environment in Western Religious Thought (Society for the Humanities 415-416)

[The Literature of Ancient Israel I (Near Eastern Studies 221) Not offered 1980-81.]

[The Literature of Ancient Israel II (Near Eastern Studies 222) Not offered 1980-81.]

Freshman Seminar in Biblical Literature: Heroes and Heroines of the Bible (Near Eastern Studies 225)

[Readings in Classical Hebrew Literature (Near Eastern Studies 231-232) Not offered 1980-81.]

The History of Ancient Israel to 450 B.C.E. (Near Eastern Studies 243)

Jews of the Ancient and Muslim Near East: 450 B.C.E.-1204 C.E. (Near Eastern Studies 244)

Jews of the Christian West: 476-1948 (Near Eastern Studies 245)

[Modern Hebrew Literature in English Translation (Near Eastern Studies 260-261) Not offered 1980-81.]

Undergraduate Seminar in Biblical Literature: Prophecy in Ancient Israel (Near Eastern Studies 322)

Independent Study: Biblical Literature (Near Eastern Studies 326)

Seminar in Jewish History: Eastern European Jewry in the Modern Age (Near Eastern Studies 331)

[The Historical Development of Rabbinic Legal Literature (Near Eastern Studies 333) Not offered 1980-81.]

Biblical Interpretation in Rabbinic Literature (Near Eastern Studies 334)

Independent Study: Rabbinic Literature (Near Eastern Studies 339)

The History and Culture of Ancient Mesopotamia (Near Eastern Studies 341)

[The Jewish Community Throughout History (Near Eastern Studies 343) Not offered 1980-81.]

[Age of the Patriarchs (Near Eastern Studies 344) Not offered 1980-81.]

[History of the Ancient Near East in Biblical Times (Near Eastern Studies 345) Not offered 1980-81.]

[Judaism and Christianity in Conflict (Near Eastern Studies 347) Not offered 1980-81.]

[Independent Study: Ancient Israel and the History of the Jewish People (Near Eastern Studies 348) Not offered 1980-81.]

[Seminar in Modern Hebrew Literature: The National Renaissance (Near Eastern Studies 361-362) Not offered 1980-81.]

[Seminar in Modern Hebrew Literature: The Enlightenment (Near Eastern Studies 363-364) Not offered 1980-81.]

[Seminar in Modern Hebrew Literature: The Israeli Short Story (Near Eastern Studies 366) Not offered 1980-81.]

[Seminar in Modern Hebrew Literature: The Early Hebrew Novel (Near Eastern Studies 367)

Folklore in the Ancient Near East (Near Eastern Studies 384)

Latin American Studies

Economics of Agricultural Development (Agricultural Economics 464)

Seminar on Latin American Agricultural Policy (Agricultural Economics 665)

Geography and Appraisal of Soils of the Tropics (Agronomy 401)

Management Systems for Tropical Soils (Agronomy 480)

Livestock Production in Warm Climates (Animal Science 400)

Forages of the Tropics for Livestock Production (Animal Science 403)

The Discovery of America (Anthropology 150)

[The Earliest Civilizations (Anthropology 250) Not offered 1980-81.]

Urban Anthropology (Anthropology 313)

Ethnology of the Andean Region (Anthropology 333)

[Interpretation of the Archaeological Record (Anthropology 352) Not offered 1980-81.]

Archaeology of the Americas I (Anthropology 354)

Archaeology of the Americas II (Anthropology 355)

[Ethnohistory (Anthropology 418) Not offered 1980-81.]

[Indians of Mexico and Central America (Anthropology 432) Not offered 1980-81.]

Andean Thought and Culture (Anthropology 433)

[Investigation of Andean Institutions: Archaeological Strategies (Anthropology 435) Not offered 1980-81.]

Mesoamerican Thought and Culture (Anthropology 456)

Seminar in Archaeology: Settlement Archaeology (Anthropology 494)

[Andean Symbolism (Anthropology 632) Not offered 1980-81.]

Andean Research (Anthropology 633)

Problems in Archaeology: Agricultural Origins (Anthropology 663)

Problems in Archaeology: Early Man in America (Anthropology 664)

Historical Archaeology: Method and Theory (Archaeology 311)

Seminar in Latin American Urban Planning and Development (City and Regional Planning 570)

Workshop in Latin American Urban Planning and Development (City and Regional Planning 571)

Regional Planning and Development in Developing Nations (City and Regional Planning 670)

Seminar in International Planning (City and Regional Planning 671)

Economic History of Latin America (Economics 325/525)

[Cuba: Culture and Revolution (Government 335) Not offered 1980-81.]

[Politics of Latin America (Government 340)

[Latin American Society and Politics (Government 655) Not offered 1980-81.]

[Agrarian Societies in Latin American History (History 347) Not offered 1980-81.]

[Contemporary Brazil (History 348 and Sociology 368) Not offered 1980-81.]

[Seminar in Latin American History (History 649) Not offered 1980-81.]

Special Studies of Problems of Agriculture in the Tropics (International Agriculture 602)

Elementary Portuguese (Portuguese 121-122)

Portuguese Intermediate Composition and Conversation (Portuguese 203-204)

Advanced Composition and Conversation (Portuguese 303-304)

[Portuguese Advanced Readings (Portuguese 305-306) Not offered 1980-81.]

Seminar in Portuguese Linguistics (Portuguese 700)

Quechua Elementary Course (Quechua 131-132)

Quechua Intermediate Course (Quechua 133-134)

Seminar in Quechua Linguistics (Quechua 700)

Introduction to Hispanic Literature (Romance Studies 201)

[Intermediate Spanish Grammar and Composition (Romance Studies 212) Not offered 1980-81.]

[Advanced Spanish Grammar and Composition (Romance Studies 312) Not offered 1980-81.]

Readings in Sixteenth- and Seventeenth-Century Hispanic Literature (Romance Studies 315)

Readings in Modern Hispanic Literature (Romance Studies 316)

**Readings in Spanish-American Literature
(Romance Studies 317)****[Latin American Civilization (Romance Studies 323)** Not offered 1980–81.]**Spanish-American Short Story (Romance Studies 333)****[Form and Formlessness in the Novel of the Generation of 1898 (Romance Studies 389)** Not offered 1980–81.]**[Quixote and the Modern Hispanic Novel (Romance Studies 446)** Not offered 1980–81.]**Hispanic Romanticism (Romance Studies 489)****After the Revolution: Mexico and Cuba (Sociology 367)****[Contemporary Brazil (Sociology 368)** Not offered 1980–81.]**Human Fertility in Developing Nations (Sociology 434)****Research Seminar in Population (Sociology 632)****Latin American Society and Politics (Sociology 655)****[History of the Spanish Language (Spanish 401–402)** Not offered 1980–81.]**Applied Linguistics of Spanish (Spanish 407)****Grammatical Structure of Spanish (Spanish 408)****Hispanic Dialectology (Spanish 601)****Linguistic Structure of Ibero-Romance (Spanish 602)****Contemporary Theories of Spanish Phonology (Spanish 603)****Contemporary Theories of Spanish Grammar (Spanish 604)****Seminar in Hispanic Linguistics (Spanish 700)****Medieval Studies****Freshman Seminars**

Each semester the program in Medieval Studies offers at least three freshman seminars featuring readings from the best works of European literature from the medieval millennium (c. 500–1500 A.D.) and usually some readings as well from modern imitators of medieval styles (e.g., Tennyson, Tolkien, C. S. Lewis, T. H. White). Students should consult the freshman seminar program brochure each term for an up-to-date listing of course topics and section times.

Related Courses

Courses in various aspects of medieval studies are offered each year in numerous cooperating departments, including Classics, comparative literature, English, history, history of art, modern languages and literatures (including German literature, Romance studies, and Russian literature), music, Near Eastern Studies, philosophy, and the Society for the Humanities. An up-to-date listing of courses offered in each term will be made available at the office of the Classics Department (121 Goldwin Smith Hall) as soon as the *Course and Time Roster* is published.

Graduate Seminar**671 The Vikings** Fall. 4 credits.

Hours to be arranged. R. T. Farrell.
This course is meant to function as a meeting place for students from a number of disciplines who wish to explore the complex cultural phenomenon of the Scandinavian impact on Europe in the Middle Ages. All students will be asked to gain a basic understanding of several literary works and texts dealing with the elements of art history, archaeology, and cultural history of the period 400–1100. The course will then have two aspects: the private, supervised research of students, and a series of special seminars by the director and a number of distinguished scholars in the field of Scandinavian studies. Upper-level undergraduates and graduate students will both be welcome in the course.

For further information about the courses offered or about the program for an independent major in Medieval Studies, students should contact the program director, Professor J. J. O'Donnell, 27 Goldwin Smith Hall.

Religious Studies**Anthropology****320 Meaning Across Cultures****417 Structuralism****425 Ritual Structures and Cultural Pluralism****619 Buddhism in Asia****Asian Studies****250 Dimensions of Religious Experience****351 Early Buddhism****352 Mahayana Buddhism****355 Japanese Religions****[453 Zen Buddhism** Not offered 1980–81.]**650 Seminar on Asian Religions****Classics****226 The Genius of Christianity****308 New Testament Greek****368 Medieval Latin****681 Patristic Seminar****Comparative Literature****326 Christianity and Judaism****328 Literature of the Old Testament****421 Old Testament Seminar****426 New Testament Seminar****429 Readings in the New Testament****History****263 The Earlier Middle Ages****264 The High Middle Ages****364 Major Themes in American Religious History****[365 Medieval Culture, 400–1150** Not offered 1980–81.]**366 Medieval Culture, 100–1300****368 Francis of Assisi and the Franciscans****History of Art****215 Introduction to Art History: African Art****240 Introduction to Art History: The Renaissance****250 Introduction to Art History: The Baroque Era****280 Introduction to Art History: Asian Traditions****333 Early Medieval Art and Architecture****341 Flemish Painting****383 The Arts of Early China****483 Chinese Art of the T'ang Dynasty****Near Eastern Studies****[221–222 The Literature of Ancient Israel** Not offered 1980–81.]**225 Freshman Seminar in Biblical Literature: Heroes and Heroines of the Bible****[231–232 Readings in Classical Hebrew Literature** Not offered 1980–81.]**243 The History of Ancient Israel to 450 B.C.E.****244 The Jews of the Ancient and Muslim Near East: 450 B.C.E.–1204 C.E.****245 The News of the Christian West: 476–1948****253 Classics of Islamic Literature****[282 Ancient Near Eastern Literature** Not offered 1980–81.]**311 Advanced Arabic****322 Undergraduate Seminar in Biblical Literature: Prophecy in Ancient Israel****[333 The Historical Development of Rabbinic Legal Literature** Not offered 1980–81.]**334 Biblical Interpretation in Biblical Literature****[343 The Jewish Community Throughout History** Not offered 1980–81.]**[344 Age of the Patriarchs** Not offered 1980–81.]**[345 History of the Ancient Near East in Biblical Times** Not offered 1980–81.]**346 The Roots of Greek Civilization****[347 Judaism and Christianity in Conflict** Not offered 1980–81.]**[374 The Mystics of Islam** Not offered 1980–81.]**376 Seminar on Islamic Law and Society****[442 Seminar in Jewish History: The Medieval Church and the Jews** Not offered 1980–81.]**Jewish Studies****101 Freshman Seminar: Jewish Contributions to Western Culture****Philosophy****213 Existentialism****263 Philosophy of Religion**

Romance Studies

359 Being, God, Mind: Humanistic Revolutions in Western Thought from Plato to Vico

460 Biology and Theology: Approaches to the Origin of Life, Evolution, Heritage, Sexuality, and Death

Society for the Humanities

415-416 Man and His Environment in Western Religious Thought

Natural Resources

407 Religion, Ethics, and the Environment

611 Seminar in Environmental Values

Russian and Soviet Studies

Details regarding the major in Russian and Soviet Studies will be found in the *Announcement of Academic Information*. All courses offered by the Department of Russian Literature and Russian language courses offered by the Division of Modern Languages are relevant, as well as courses relating to Russia, the Soviet Union and Eastern Europe in the Departments of Economics, Government, History, and Music and in the School of Industrial and Labor Relations and the College of Human Ecology.

Program on Science, Technology, and Society

Biology and Society I: The Biocultural Perspective (Anthropology 301 and Biological Sciences 301 and Biology and Society 301)

Biology and Society II: Biology, Society, and Human Values (Anthropology 302 and Biological Sciences 302 and Biology and Society 302)

Biomedical Ethics (Biological Sciences 205 and Philosophy 245) Fall.

Environmental Ethics (Biological Sciences 206 and Philosophy 246)

Senior Seminar in Human Fertility. Developing Nations (Biology and Society 400 and Sociology 434)

Senior Seminar. Biomedical Research, Regulations, and Ethics: A Delicate Balance (Biology and Society 401)

Senior Seminar. Biomedical Research, Regulations, and Ethics: A Delicate Balance (Biology and Society 402)

Senior Seminar. Social Demography (Biology and Society 403 and Sociology 430)

Science, Technology, and Public Policy (B&PA NPA 504 and Government 426)

Impact and Control of Technology Change (City and Regional Planning 540, Economics 302, and Government 302)

Politics of Technical Decisions I (City and Regional Planning 541, Government 628, and B&PA NPA 515)

[Politics of Technical Decisions II (City and Regional Planning 542, Government 629, and B&PA NPA 516) Not offered 1980-81.]

The Computerized Society (Computer Science 305)

Social Implications of Technology (Engineering CEE B305)

[Seminar in Technology Assessment (Engineering CEE B416 and College Scholar 464) Not offered 1980-81.]

Environmental Law (Engineering CEE B615)

Technology, Society, and the Human Condition (Engineering M&AE 302)

Urban Affairs Laboratory (Government 312)

International Law (Government 389)

[Defense Policy and Arms Control (Government 484) Not offered 1980-81.]

International Politics of Energy (Government 490)

Social History of Western Technology (History 380)

[Problems in the History and Philosophy of Biology (History 386 and Philosophy 386) Not offered 1980-81.]

Science, Technology, and Law (Law 797)

Science and Human Nature (Philosophy 286)

Science, Technology, and Social Change (Rural Sociology 424)

Sociology of Science and Technology (Sociology 255)

[Social and Political Studies of Science (Sociology 355 and City and Regional Planning 340) Not offered 1980-81.]

Society for the Humanities

Unlike other courses, the seminars offered by the society begin the *second week* of each semester. The seminars are open to graduate students and suitably qualified undergraduates. Students wishing to attend should telephone the center (256-4725) early in the first week of the term to arrange a short interview with the fellow offering the course. There are no examinations, and it is at the discretion of the fellow whether to require only oral reports, or, in addition, a research paper. Students wishing credit for the course should formally register in their own college. Persons other than those officially enrolled may attend as visitors with permission of the fellow.

101 Freshman Seminar: Science as Literature Fall and spring. 3 credits.

T R 10:10-11:25. J. Lumley.
Robert Ornstein claims that science turns the impossible into the boring. Einstein contends that science, in its purest form, uncovers "the grandeur of reason incarnate in existence." In readings ranging from Darwin to Einstein to Asimov, we shall try to discover how a discipline can be so variously defined and described.

102 Freshman Seminar: Science as Literature Spring. 3 credits.

M W F 9:05. J. Lumley.
Man's rational perception of his place in nature frequently clashes with his emotional need to elevate himself above nature. In the last 350 years science has had the uncomfortable habit of dethroning him as master of the universe. In this course, with readings from Galileo, Darwin, and Freud, we shall follow man's journey from a position of dominance in a geocentric, divinely ordered universe to that of a genetically programmed organism in a decaying biosystem. We shall examine how well, or how completely, he has accommodated his dreams to the new worlds born of science.

381-382 Self, Family, and Polity in Renaissance Times (The Frederick G. Marcham Seminar) Fall and spring. 4 credits each term. Limited to 15 students.

Fall: disc. M W 2:30-3:45. Spring: no class meetings; students will pursue independent work in consultation with the instructors. E. Morris, J. Najemy.

An exploration of the relationships between the problematic notions of selfhood, family, and community, on the one hand, and historical experience, on the other. The course will use and confront the methods of social history and literary analysis, drawing occasionally on anthropology and psychoanalysis. The three principal texts will be: Alberti, *Books on the Family*; Rabelais, *Gargantua and Pantagruel*; Montaigne, *Essays* (all in English translation); additional readings in historical and theoretical works.

413-414 The Applications of Reason: For and Against Civilization 413, fall; 414, spring. 4 credits each term.

T 1:25-3:10. K. Racevskis.
The theme of Reason will be studied in terms of a fundamental contradiction. Reason, as an ideal of the Enlightenment, serves to reconcile man and nature; it can also be seen as a dehumanizing cultural force promoting injustice, violence, and irrationality. Readings will include Rousseau, Nietzsche, Becker, Horkheimer, Gay, Marcuse, Roszak, Wilden, Lacan, Foucault, Baudrillard, Mumford, and Deleuze.

415-416 Man and His Environment in Western Religious Thought 415, fall; 416, spring. 4 credits each term.

M 3:35-5:20. J. Cohen.
A study of Jewish and Christian teaching on the proper relationship between human society and natural environment. Attempting to discern the role of religious thought in fashioning the attitude of Western man towards nature, the seminar will first consider his interpretation (midrash) of the biblical commandment to subdue and rule the earth, as expressed in a variety of sources ranging from exegesis and law to art and mysticism. Then, during the second semester, the seminar will proceed to examine the application of this midrashic understanding in the approaches of Judaism and Christianity to agriculture, urban civilization, and their environmental ramifications.

417-418 Love Books of the Middle Ages 417, fall; 418, spring. 4 credits each term.

M 1:25-3:10. G. Mazzotta.
The seminar will explore the doctrines and theology of nature which lie under the imaginations of love in a number of medieval texts such as *The Art of Courtly Love*, *Lancelot*, *The Book of Good Love*, *Celestina*, *History of my Calamities*, *The Vita Nuova*, *Decameron*, *Romance of the Rose*, and *Trilussa and Criseyde*. The seminar will also advance some formulations on medieval esthetics and literary practice.

419 Culture and Ideology Fall. 4 credits.

W 1:25-3:10. T. Eagleton.
The course will explore various theories of ideology in their relation to the different concepts of "culture," and within the broad frameworks of Marxism, semiotics, and psychoanalysis ask how far these two concerns are identical, incompatible, mutually opposed, or otherwise connected. It will also consider the problem of what is or could be meant by a "revolutionary culture," in the light of actual historical developments and theories of culture and politics in general.

421 The Formal Versus the Formless: A Reading of Contemporary American Poetry Fall. 4 credits.

W 3:35-5:20. D. Lehman.
In delineating the genesis of a poem, Marianne Moore wrote that "Ecstasy affords the occasion and expediency determines the form." What are the complex relations between "ecstatic occasion" and

"expedient form"—between a poet's formal decisions and the "visions and revisions" that inform his works? In the context of this and related questions, we will study such poets as James Merrill and A. R. Ammons, with some attention to their precursors, and with reference to larger issues of form, tradition, and the American sublime.

422 The Tradition of the New in American Poetry Spring. 4 credits.

W 3:35–5:20. D. Lehman.
The spirit of experimentation in contemporary American poetry will be considered as a cultural phenomenon and in the specific literary guises it has taken. We will investigate examples of the prose poem, the sestina and other exotic forms, and we will examine the rationale for various innovative strategies of composition. Particular attention will be given to the career of John Ashbery and to other poets in whose works we may discern the impulse to renew traditions by tampering with them.

423 Architecture, Man, and Nature in the Early Modern Period Fall. 4 credits.

T 3:35–5:20. P. Long.
The Vitruvian tradition, in which the proportions of the properly constructed building were believed to reflect those of the cosmos, developed ideas about that cosmos, and about man as a knower and manipulator of the natural world. This seminar will focus on these and other ideas relevant to the history of science, using the writings of Alberti, Filarete, Francesco di Giorgio, Serlio, and the sixteenth-century commentaries on the *De architectura* of Vitruvius.

424 Leonardo da Vinci as a Philosopher of Nature Spring. 4 credits.

T 3:35–5:20. P. Long.
This seminar will focus on the writings, paintings, drawings, and inventions of Leonardo in an exploration of his beliefs about the natural world. His approach to nature will be studied with reference to the chronological development of his ideas, and will be placed within the context of the scientific, technical, and artistic tradition of his own age.

425–426 The Phenomenon of Iconoclasm 425, fall; 426, spring. 4 credits each term.

R 1:25–3:10. J. Herrin.
An analysis of attitudes towards representations of the sacred and the motives for their destruction from ancient to modern times, concentrating on the two major outbreaks of iconoclasm, in medieval Byzantium and Counter-Reformation Europe. Historical and theological texts in translation and visual materials will be used. Fall: From the ancient world to medieval Byzantium. Spring: From medieval Europe to the French Revolution.

427 The Roots of Narrative Fall. 4 credits.

R 3:35–5:20. R. Harbison.
An attempt to determine whether primitive story material exists and to clarify the relations among myth, fairy tale, and romance; between naive forms and those sophisticated cultural products which try to draw on archaic sources. Texts will include medieval romances in translation, Malory, Sidney's *Arcadia*, Grimm's fairy tales, Lévi-Strauss's retelling of myths, Roheim's reports of schizophrenic fantasy, and short works by Kafka.

428 Primitivism in Nineteenth-Century and Early Twentieth-Century Art and Thought Spring. 4 credits.

R 3:35–5:20. R. Harbison.
A study of various Romantic attempts to undo cultural history. Anti-individual and antisequential themes in an assortment of figures including Blake, the Brothers Grimm, Ruskin, William Morris, Wagner, Debussy, Nietzsche, D. H. Lawrence, and Kandinsky, with opportunities to gauge how translatable ideas are from one art form to another.

429 Nature and Culture: The Window Motif in Pasternak Fall. 4 credits.

T 3:35–5:20; there may be a section for Russian readers. A. Zholkovsky.
A discussion of Boris Pasternak's poetic universe and the place occupied in it by "window" as a means of communication between the outer world (nature) and the home (culture). The emphasis will be on thematic invariance and on poetic subtleties. Comparisons with invariant motifs of other poets (Pushkin, Mandelstam, Okudzhava).

431–432 Meanings of the Garden in Europe after the Renaissance 431, fall; 432, spring. 4 credits each term.

M 1:25–3:10. E. Dotson.
A study of gardens as an aspect of Renaissance culture, and of the traditions of garden design and iconography developed in Europe from the sixteenth to the eighteenth century. Subjects to be discussed will include concepts of nature expressed in garden design and iconography; the impact of ancient and of non-European cultures on European gardens; the poetry of gardens; and the social and ideological uses of gardens.

433–434 Guided Reading Fall and spring. 2 credits each term.

435–436 Guided Research Fall and spring. 4 credits each term.

Women's Studies

103 Freshman Seminar: Writing as Women (also English 104) Fall. 3 credits.

M W F 10:10. K. Dugas.
Students will confront their experience as girls and women through autobiographical and introspective writing. In seminars and individual conferences we will stress development of a clear, individual writing style. Students will critique each other's papers and will discuss selected readings drawn from works by Adrienne Rich, Colette, Virginia Woolf, Toni Morrison, Lillian Hellman, Doris Lessing, Maxine Hong Kingston, and others.

[105 Freshman Seminar: Feminine and Masculine Ideals in Japanese Culture (also Asian Studies 105)] Fall. 3 credits. K. Brazell. Not offered 1980–81.]

[207 Freshman Seminar: The Family in American History (also History 207)] Spring. 4 credits. M. B. Norton. Not offered 1980–81.]

214 The Biological Basis of Sex Differences (also Biological Sciences 214) Spring. 3 credits.

Prerequisite: one year of introductory biology. M W F 10:10. J. Fortune.
A basis for objective evaluation of sex differences in relation to contemporary life is provided by examination of the structural and functional differences between the sexes. Provides an overview of sex differences and reproductive patterns for the vertebrates and deals more specifically with topics that relate only to mammals or humans.

238 The Historical Development of Women as Professionals, 1800–1980 (also Sociology 238 and HDFS 258) Fall. 3 credits. Students in endowed units must register for Women's Studies or Sociology 238; students in statutory units must register for HDFS 258.

T R 2:30–4. J. Brumberg.
The historical evolution of the female professions in America, including midwifery, nursing, teaching, librarianship, prostitution, social work, and medicine. Lectures, reading and discussion are geared to identifying the cultural patterns which fostered the conception of gender-specific work and the particular historical circumstances which created these different work opportunities. The evolution of

"professionalism" and the consequences of professionalism for women, family structure, and American society is also discussed.

244 Language and the Sexes (also Linguistics 244) Spring. 4 credits. Prerequisites: Linguistics 101, 111, Psychology 215, or permission of instructor. M W F 1:25. S. McConnell-Ginet.

A study of sexual differentiation in language and its significance for sex stereotyping, sexual stratification, socialization, and personal interactions.

248 Major Nineteenth-Century Female Novelists (also English 247) Fall. 4 credits. Open to nonmajors. May be credited toward the English major.

M W F 1:25. J. Blackall.
Readings include Austen, *Persuasion*; E. Brontë, *Wuthering Heights*; C. Brontë, *Jane Eyre* and *Villette*; Gaskell, *Mary Barton* or *North and South*; Stowe, *Uncle Tom's Cabin*; Eliot, *The Mill on the Floss*; Chopin, *The Awakening*; and also two imaginative sequels to *Jane Eyre*, James's "The Turn of the Screw" and Jan Rhys's *Wide Sargasso Sea*. The biographical and social circumstances surrounding these works, their critical reception within their own time, and the themes and subject matter that these novelists elected to write about are considered, and the novels are examined as works of fiction.

249 Feminist Issues in Nineteenth- and Twentieth-Century Literature (also English 248) Spring. 4 credits.

M W F 1:25. M. Jacobus.
An introductory course in writing by and about women, exploring the relation between women, literature, and feminism. There will be five main areas of concern: work and home; education and marriage; sexuality; motherhood; and the woman artist or writer herself. Readings will include novels by Charlotte Brontë, Charles Dickens, Elizabeth Gaskell, George Eliot, Thomas Hardy, Virginia Woolf, D. H. Lawrence, Sylvia Plath, Margaret Atwood, and Adrienne Rich, as well as a variety of texts drawn from writers on women and feminism from Mary Wollstonecraft to the present day.

277 Psychology of Sex Roles (also Psychology and Sociology 277) Spring. 3 or 4 credits.

Prerequisite: an introductory psychology course. T R 10:10–11:30. S. Bem.
The question of why and how adult women and men come to differ in their overall life styles, work and family roles, personality patterns, and cognitive abilities, etc. This broad question is examined from five perspectives: (a) the psychoanalytic perspective (b) the biological perspective, (c) the historical and cultural evolutionary perspective; (d) the child development perspective; and (e) the social-psychological and contemporaneous perspective. Each of these perspectives is also brought to bear on more specialized phenomena relating to the psychology of sex roles, including psychological androgyny, women's conflict over achievement, the male sex role, equalitarian marriage relationships, female sexuality, homosexuality, and transsexualism.

305 Psychological Anthropology (also Anthropology 305) Fall. 4 credits

M W F 11:15. B. J. Isbell.
A consideration of problems selected to illustrate the mutual relevance of psychology and anthropology, concentrating on cross-cultural studies of cognitive and social development, with an emphasis on comparisons of socialization of sex roles.

321 The Anthropology of Women (also Anthropology 321) Fall. 4 credits.

M W F 2:30. K. March and D. Holmberg.
An introduction not only to the study of women from an anthropological perspective, but also to anthropological theories of sex and gender from the perspective of women's studies. The course examines various aspects of the position of women—

political, economic, social, ideological, and biological — to emphasize the diversity in gender and sex role definition cross-culturally.

326 Women in American Society, Past and Present (also History 326) Spring. 4 credits.
M W F 9:05. M. B. Norton.

A survey of women's experiences in the American past, emphasizing such topics as the changing nature of housework, the women's rights movement, and the ideology of woman's place.

353 Women and Politics (also Government 353) Spring. 4 credits.

T R 10:10. M. Katzenstein.
This course considers alternative ideologies about the relationship between men and women in the family and in the marketplace; the strategies that women have used to assert claims to equality; and the results of government policies for the status of women in both liberal and revolutionary societies.

422 Special Problems in the Anthropology of Women (also Anthropology 422) Spring. 4 credits.

Prerequisite: Women's Studies 321 (Anthropology 321) or permission of instructor.

Hours to be arranged. K. March.
Each year this seminar focuses upon a particular area of concern within the anthropology of women, building upon the work done in Women's Studies and Anthropology 321. The topic for 1980–81 is women's life histories. This seminar explores the insights provided by biographical and autobiographical materials into both the particularities of individual lives and wider cultural forms.

[426 Undergraduate Seminar in Early American History (also History 426)] Spring. 4 credits.

Prerequisite: permission of instructor. M. B. Norton. Not offered 1980–81.]

462 Dickinson and Whitman (also English 462) Fall. 4 credits.

M W F 1:25. D. Fried.
A study of the poems and selected letters of Emily Dickinson and of Walt Whitman's *Leaves of Grass* and selected prose, considered as individual poetic achievements and as complementary voices in American literature. Topics include the modes of poetic autobiography, the critique of religion, poetics of indirection, and the variety of critical approaches these two idiosyncratic canons have generated.

478 Women and Writing (also English 478) Fall. 4 credits.

M W F 11:15. M. Jacobus.
The course will focus on works by and about women, clustering in four main areas: Romanticism and after (such writers as Mary Wollstonecraft, Mary Shelley, Emily Brontë), Victorians (Charlotte Brontë, Tennyson, Elizabeth Barrett Browning), the New Woman Fiction of the 1890s (Hardy, Olive Schreiner, Gissing), and Modernists (Gertrude Stein, Katherine Mansfield, Virginia Woolf). The aim will be twofold: first, to consider questions about women's writing (the existence of a female literary tradition, the specificity of women's writing, the conditions under which they wrote) and the representation of women and women's issues in prose and poetry; and second, to complement an examination of the sexual and political ideology reproduced in literature with readings from seminal feminist documents and with current theoretical work (in England, America, and France) toward developing a specifically feminist critique.

479 Reading Woman Poets (also English 479) Spring. 4 credits.

T R 12:20. S. Siegel.
An examination of the traditional controversy over whether or not reading, writing, and gender are related to one another. Detailed study of the autobiographical, critical, and poetic writings of Amy Lowell, Hilda Doolittle, Marianne Moore, Sylvia Plath,

and Adrienne Rich. The seminar will consider salient departures from conventional poetic modes and themes and the pressures each poet has felt to be significant in her attempt to shape herself, her aesthetic, and her poetry. Discussion will begin with a specific question which will recur throughout the semester: How would Virginia Woolf have read these poets?

483 Feminism and French Literature (also French 483) Fall. 4 credits. Course taught in French.

M W F 1:25 N. Furman.
The interaction between feminist concerns and literary expression brings to the fore an array of questions at the juncture of history and literature. Some of the topics discussed will be the representation of women in literature, the literary echoes of women's social *revendications*, the inscription of women writers in the literary canon, and feminist challenges to criticism. Authors to be studied include Mme. de Lafayette, Mme. de Stael, George Sand, Colette, Simone de Beauvoir, Marguerite Duras, and Hélène Cixous.

499 Directed Study Fall or spring. Variable credit.

Prerequisite: one course in women's studies and permission of a faculty member of the Women's Studies Executive Board.

Hours to be arranged. Staff.

611 Seminar in Old Icelandic Literature I (also German Literature 611) Fall. 4 credits. Prerequisite:

German 610 or permission of instructor.

Hours to be arranged. J. C. Harris.
'Old Icelandic mythological texts will be studied, with focus on the female figures and the role of women.

[626–627 Seminar in the History of American Women (also History 626–627)] 626, fall; 627, spring. 4 credits. M. B. Norton. Not offered 1980–81.]

656 Seminar in Family Studies: The History of the American Family (also Sociology 656 and HDFS 655) Spring. 3 credits. Students in endowed units must register for Women's Studies or Sociology 656; students in statutory units must register for HDFS 655.

Hours to be arranged. J. Brumberg.
Considers the historical literature on change and variation in American family life and form, from the European background (16th century) to the present. Reading, discussion and papers focus on the social, economic, political and cultural circumstances in the past which affected families and their relations to the larger society.

[685 Seminar in Sex Differences, Sex Roles, and Sexuality (also Psychology and Sociology 685)]

Fall. 4 credits. Prerequisite: permission of instructor. S. Bem. Not offered 1980–81.]

759 Virginia Woolf (also English 759) Spring. 5 credits. Prerequisite: permission of instructor.

T 3:35. S. Siegel.
A detailed study of Woolf's fictional, autobiographic, critical, and feminist writings.

Related Courses in Other Departments

The Family in Modern Society (Human Development and Family Studies 150)

The Family (Human Development and Family Studies 253)

Human Sexuality: A Psychosocial Perspective (Human Development and Family Studies 315)

Contemporary Family Forms in the United States (Human Development and Family Studies 352)

Theories of Adult Interpersonal Relationships (Human Development and Family Studies 358)

Families and Social Policy (Human Development and Family Studies 456)

Contemporary Family Theory and Research (Human Development and Family Studies 650)

Dress: A Reflection of American Women's Roles (Design and Environmental Analysis 245)

Economics of Household Behavior I (Consumer Economics and Housing 626)

Economics of Household Behavior II (Consumer Economics and Housing 627)

Additional courses may be offered in women's studies. Students should contact the Women's Studies Program, 332 Urin Hall (telephone 256-6480), for an updated list of courses each semester.