Knowledge of their Written work based foreign language 111 unless 112 is 3 hours, 3 credits.

Hispanic Students

Prose. Prerequisite: three years of high school. Each 3 hours, 3 credits.

Hispanic Students

Emphasis on major literary movements in Hispanic culture in addition to the sixteenth century and the development of the Spanish language. 3 hours, 3 credits, or permission of the instructor. 3 hours, 3 credits.

Spanish grammar, of idiomatic Spanish. 3 hours, 3 credits.

112. Fundamentals of Speech II

The various purposes of public oral communication and the model structures of effective presentation are discussed. Students are given regular opportunities to deliver talks and participate in discussions. Concentration is on the organization of the material to achieve the speaker's desired effect. Emphasis on effective preparation and presentation of material and use of voice and body. 3 hours, 3 credits.

201. Argumentation and Debate

The function of argumentation as a mode of human communication; its origins, development, techniques, and purposes. Individual and team presentations, parliamentary procedure, audience analysis. The ethics of debate. Prerequisite: Speech 112. 3 hours, 3 credits.

Note: This course, which should be taken at the same time as English 101, uses the same grading system as English 101.
410. The History of Crime and Punishment in the United States
Ways in which Americans have defined crime, explained its causes, and punished and rehabilitated criminals. The relationships among crime, social values, and social structure. Areas of emphasis include colonial Massachusetts and Virginia; the creation of police forces and prisons during the first half of the nineteenth century; criminality during the Gilded Age and Progressive Period; Prohibition; creation of the FBI; crime and the Great Depression; and some aspects of crime and punishment around 1950-1970. 3 hours, 3 credits. Faber.

430. Modern Military History from the Eighteenth Century to the Present
Emphasis on the United States, Asia, and Europe in modern times including war in Vietnam, Korea, Cuba, and the Second World War. 3 hours, 3 credits. Higgins.

The following courses are given jointly with the Divisions of English and Black and Puerto Rican Studies.

HISTORY—LITERATURE

220. Women in America
A topical, interdisciplinary examination of the history and status of women in America. Selected topics: archetypes and stereotypes, women's economic role, women in the arts. 3 hours, 3 credits. Staff.

HISTORY—BLACK AND PUERTO RICAN STUDIES

211-212. African-American History I and II
In the first semester, a study of the African background and origins of Black people in the Americas, concentration on the slave trade and on the development of the slave systems in the West Indies and in the United States, emphasis on resistance and abolition movements, the Civil War. In the second semester, the War's end and the Reconstruction Period, the triumph of white supremacy in the 1890s, and the development of the Civil Rights and protest forces in the twentieth century. Each 3 hours, 3 credits. Jones.

227. History of Puerto Rico I
History of the Puerto Rican people is traced from the indigenous cultures that existed prior to 1493 through the Spanish conquest and colonization, the introduction of Africans up to the middle of the nineteenth century—1868—when the Lares revolt occurred. Emphasis on the nineteenth century, the formation of the Puerto Rican nationality, and the variety of political movements. 3 hours, 3 credits.

228. History of Puerto Rico II
From the latter part of the nineteenth century to the present. The last years of Spanish domination and the American invasion of 1898. A study of the political and economic aspects of Puerto Rico under American colonialism. Rise of the Nationalist movement and the Popular Democratic Party. 3 hours, 3 credits.
United States

341. African History
A study of the period from the earliest African civilization to the late nineteenth century. The effect of the great religions, Christianity and Islam, in relationship to the development of the African cultures. The function of language and trade as they contribute to the sociopolitical development of the continent. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Maliwa.

342. Contemporary Africa
An examination of contemporary African social and political thought, with a study of the major movements. The nature and background of Pan-Africanism and the concept of the “Black Diaspora” are explored. Recent African groupings such as the Brazzaville group, the Casablanca powers, the Monrovia states, and the Ghana-Guinea-Mali Union are studied. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Maliwa.

HISTORY—LITERATURE—BLACK AND PUERTO RICAN STUDIES

210. Race and the Urban Situation
The effects of ethnicity and racism on personal and intergroup communications in the urban setting. The origins of prejudice and its effects upon society’s agents. Building an increased awareness of the student’s own attitudes toward race is a goal of the course. Included are readings in American history, literature, and sociology. 3 hours plus conferences, 3 credits. Lorde.

213. African-American Culture
African ethnic and cultural backgrounds serve as the foundation for an exploration of the culture of the Black man in the United States. Literature, music, art, drama, and dance are explored and their significance and relationship to the various movements are analyzed. The lifestyles of the Black communities are examined with focus upon residual problems which a racist society creates and perpetuates. 3 hours, 3 credits.

320. Religion, Colonialism and Liberation in Puerto Rico
An examination of the role of Christianity in the course of the Spanish and North American occupations of Puerto Rico. The phenomenon of colonialism with particular emphasis on its shaping of the national identity of the Puerto Rican. 3 hours, 3 credits. Bardequez.

322. Literature of the African Revolution
Writings by sociopolitical thinkers such as Edward Wilmot Blyden, Nkrumah, Senghor, Nyerere, and Padmore. Okot p’Bitek, Chinua Achebe, Alex LaGuma, Wole Soyinka, James Ngugi, and Frantz Fanon are included. Essays, stories, plays, poems, and novels. Prerequisites: English 101-102, Speech 111—unless exemption is granted—and one other course in literature or permission of the instructor. 3 hours, 3 credits. Kinyatti.
NOTICE

The program and requirements set forth in this Bulletin are necessarily subject to change without notice at any time at the discretion of the administration.

All tuition and fee schedules are necessarily subject to change without notice, at any time, upon action by the Board of Higher Education of the City of New York, regardless of its tuition and fee schedules in effect at the time of pre-registration.
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Course Offerings

COLLEGE COURSES

Freshman Colloquium 101
An in-depth, continuing orientation to college life at John Jay, consisting of a weekly small group meeting with a counselor to discuss the problems, resources and issues relating to new college students. Through open discussion the new student will be helped to deal more effectively and expeditiously with the College structure. Open to entering (first semester) freshmen only. 1½ hours, 2 credits. Counseling staff.

Honors Reading Course 501
The student submits a project of reading and research for the term, for approval by the instructor. A paper is required and there are periodic conferences. Special arrangements may be made to do this work over the summer. Open only to seniors. Required of all honors candidates. Open to others with the approval of the Committee on Course and Standing. 3 credits. Staff.

College Colloquium 503
An interdisciplinary seminar, centered on a broad topic picked for the term's work. Required of all seniors and open only to them. 2 hours, 3 credits. Staff.

THE PRELECT PROGRAM

English 21. Basic Communications
Using the general semantics approach, this course will offer training and practice on basic communication skills, particularly spoken and written skills. Students earning an A in this course will be exempted from English 101. 2 hours, 2 credits. Staff.
Sociology 21. Group Interaction Analysis
Analysis of behavior in groups, with particular emphasis on small groups. Cooperation vs. competition; leaderless discussion and task groups. Dyads, Triads, and small group analysis. Crowds, Mobs, and large groups. Marginality, minorities and majorities. Social movements. Public opinion and propaganda. 2 hours, 2 credits. Staff.

Psychology 21. Social Perception
Normal and abnormal psychological factors in perception. Common illusions, adaptation, subliminal perception. The influence of set, social and cultural factors in perception. The formation of social norms. The continuum of normal and abnormal perception, including fantasy, stereotyping, regression, denial, projection, sublimitation and reaction formation. 2 hours, 2 credits. Staff.

DIVISION OF ARTS AND LANGUAGES

Chairman: Theodore A. Gill
Professors: Theodore A. Gill, Martin P. Golding
Associate Professors: Barry Luby, Robert P. Montgomery, Nishan Parlakian, Irving Portner, Raymond Rizzo, Milton Schafer, Flora Rheta Schreiber, Edward Spingarn, Ben Termine
Assistant Professors: Erica Abeel, Peter Barnett, Letitia Dace, Bernice Kamsler, Raymond Kennedy, Daniel Paget, Marlene Park, Laurie Schneider
Lecturers: Austin Fowler, Lucie O'Brien, Richard Palmer, John Russell, Marcia Yarmus
Adjunct Professors: Robert Seaver, Abraham Tauber
Adjunct Associate Professor: George Robert Jacks
Adjunct Assistant Professors: Alice Denham, Elaine Fenton
Adjunct Lecturers: John Dobbs, Paula Goldstein, Royal Huber, Joseph Keller, Nancy Kendall, Bil Mikulewicz, Jane Morely, Jorge Santos, Joan Standora, Betty Williams, Aaron Weingarten

ART

101. Introduction to the Fine Arts
Discussion and analysis of the artistic qualities and significance of selected works of painting, sculpture, and architecture from prehistoric times to the present. Museum trips and reports. 3 hours, 3 credits.

102. American Art
Painting, sculpture, and architecture in America from the colonial period to the present. The evolution of American art from its early provincialism to its current international eminence. The relationship of art to urban growth, technology, and the mass communications media. 3 hours, 3 credits.
emphasis on small groups. And task groups. Dyads, and large groups. Marginalities. Public opinion and perception. Common influence of set, social and structure of social norms. The including fantasy, stereotypes, and reaction formation.

111. Introduction to Drawing and Painting
A studio course in the elements of design, drawing, and painting. Graphic expression through various media. 6 hours, 3 credits.

112. Design and Composition
Continuation of Art 111. A studio course in the fundamental principles of structure in the visual arts with application to two- and three-dimensional problems. Use of various media and materials (pastel, charcoal, plastic color, etc.). Advanced figure drawing. 3 hours, 3 credits.

113. Introduction to Photography
Introduction to still photography, including darkroom techniques. Students supply own materials. 3 hours, 3 credits.

201. Art in New York
Study of various styles and manifestations of art. Visits to museums, galleries, and architectural landmarks in New York City. Meets weekly on Fridays, day only. 3 hours, 3 credits.

211. Advanced Figure Drawing and Portraiture
Advanced course in figurative art, concentrating on work in oil and pastel. Students supply own materials. Prerequisites: Art 111 and 112. 3 hours, 3 credits.

301. Problems in Modern Art
Research in special problems in modern art. Interpretations of works of art through the writings of artists and critics. Prerequisite: Art 101, 201, or 202. 3 hours, 3 credits.

DRAMA

Director of Drama: Professor Ben Termine

205. Contemporary Theater
The writing and staging of plays from World War II to the present. Developments after Ibsen, Shaw, O'Neill, Williams, Miller, Albee, Pinter, Kopit, Genet, Ionesco, Beckett, Shepard, Bullins, Jones. 3 hours, 3 credits.

206. Film History: the Movie
The development of motion pictures as a technique and as an art form. Analysis of films screened in the classroom; parallel readings in history, aesthetics, and criticism. 3 hours, 3 credits.

207-208. Stagecraft
Introduction to the theory and practice of stage production: technical direction; back stage organization; house and business management; stage carpentry; design, lighting, and costumes. All elements of stagecraft are taught in their relation to script integrity and budget limitation. Each 3 hours, 3 credits.
210. Motion Picture Workshop
Rudimentary instruction in the principles and practice of motion picture production. Individual and group film productions. Camera and sound techniques, editing, etc. Students supply own materials. 3 hours, 3 credits.

212. History of the Drama
An examination of drama and theater from the classical period to about 1800. A study of both the plays and the modes of stage production in the chief dramatic ages. 3 hours, 3 credits.

213. Acting I
The arts and crafts of acting and play production. Scene study and improvisations dealing with contemporary themes and problems. Practice in the use of voice and body as instruments of expression. Improvement of the student’s skill and ease in playing roles and in appearing and speaking in public. 3 hours a week and rehearsals, 3 credits.

214. Acting II
The basic acting problems of analyzing and creating a role. Improvisations, scene practice, script analysis. Theories of acting. One play is chosen for a major production each term. Fridays should be kept free for rehearsals. 3 hours, 3 credits.

222. History of the Drama II
A study of the drama and theater from about 1800 to present—in large part the modern stage—with emphasis on the plays and the methods of staging them. 3 hours, 3 credits.

301. Directing
Introduction to the directing of plays: script analysis; coordination of production elements; issues of style and composition; actor relations; rehearsals; blocking, and mounting the play. Prerequisite: Drama 214 or consent of the instructor. 3 hours, 3 credits.

401. Drama Techniques in Crisis Intervention
Seminar for instructors who will be training police recruits. Techniques of role-playing in drama in creating an improvised family crisis with which a police officer must deal. Techniques of intervention. Prerequisites: Completion of recruit training in any accredited police academy and permission of the instructor. 3 hours, 3 credits.

FRENCH

101-102. Introductory French
A basic course with emphasis on conversation. The teaching of colloquial expressions by means of oral drill, supplemented by written exercises. No credit for 101 unless 102 is completed. Each 3 hours, 3 credits.

201-202. Intermediate French
Emphasis on conversation with some written work based on contemporary prose selections. Prerequisite: Successful completion of one year of college French or three years of high school French. Each 3 hours, 3 credits.
301-302. Contemporary Topics in French Literature
Major French writers studied with reference to the following themes and topics: faith, love, war, “making it,” social change and revolution, existentialism, the image of woman. Authors include Stendhal, Balzac, Zola, Gide, Malraux, Sartre, Camus, Giraudoux. Readings in French, papers in English or French. Either term may be taken separately. Prerequisite: French 202 or a reading knowledge of French. Each 3 hours, 3 credits.

ITALIAN

101-102. Elementary Course
Intensive introduction to Italian vocabulary and grammar. Simple composition, reading, stress on oral drill. Two consecutive terms. No credit for 101 unless 102 is completed. Each 3 hours, 3 credits.

201-202. Intermediate Italian
Emphasis on conversation with some written assignments based on contemporary prose selections. Prerequisite: Successful completion of one year of college Italian or the equivalent. Each 3 hours, 3 credits.

MUSIC

101. Introduction to Music
The elements of music. Discussion, analysis, and performance of representative selections. Emphasis on the development and cultivation of the student’s skill in listening to music. Concert reports and listening assignments. 3 hours, 3 credits.

102. Music Skills
Principles of music theory, practice in reading and writing notation, elementary composition. Development of fundamental musical skills. 3 hours, 3 credits.

103. Rock and Jazz as a History of American Pop Culture
Investigation into the musical and social roots of jazz. Contributions of Old World culture and ritual from Africa, the Caribbean, and Europe are examined as they converge in New Orleans. The changing forms and styles of jazz, blues, pop, and rock. 3 hours, 3 credits.

201. Musical Masterworks
Representative masterworks of music from the opera, symphony, chamber, concerto, solo instrument, vocal, jazz, and popular repertories. Prerequisite: Music 101 or 102. 3 hours, 3 credits.

202. Compositional Techniques
Study of the principles of harmony, counterpoint, orchestration, and analysis. Composition in the smaller forms. Performance of students’ works. Prerequisite: Music 102 or permission of the instructor. 3 hours, 3 credits.
111-112. Basic Readings and Writings for Hispanic Students
A course for Hispanic students who have a speaking knowledge of their
language but who need practice in reading and writing. Written work based
on brief prose selections. This course fulfills the one-year foreign language
requirement. Two consecutive terms. No credit for 111 unless 112 is
completed. Prerequisite: Placement examination. Each 3 hours, 3 credits.

201-202. Intermediate Conversational Spanish for Non-Hispanic Students
Emphasis on conversation and reading of modern prose. Prerequisite:
Successful completion of one year of college Spanish or three years of high
school Spanish. Either term may be taken separately. Each 3 hours, 3
credits.

211-212. Intermediate Conversational Spanish for Hispanic Students
Entirely in Spanish. Vocabulary enlargement and improvement for students
with prior conversational ability. Some emphasis on Hispanic culture in
general. Each 3 hours, 3 credits.

301. Introduction to Spanish Literature
The development of Spanish literature with special emphasis on major
literary movements through selected readings of representative authors and
genres. Prerequisite: Spanish 202, 212, or permission of the instructor. 3
hours, 3 credits.

302. Introduction to Latin American Literature
Study of the development of Latin American literature from the sixteenth
century to the present with special emphasis on major literary movements
through selected readings. Prerequisite: Spanish 202, 212, or permission of
the instructor. 3 hours, 3 credits.

311. Advanced Grammar, Composition, and Conversation
Detailed analysis of the more subtle elements of Spanish grammar, of
exceptions to the norm, and of recent trends in the development of the
language. Translation into Spanish and the composition of original essays
afford the student ample practice in writing and speaking idiomatc Spanish.
Prerequisite: Spanish 202, 212, or permission of the instructor. 3 hours,
3 credits.

401-402. Contemporary Issues in Hispanic Literature
Analytical study of contemporary philosophical, political, and esthetic issues
as reflected in the writings of such modern authors of Spain and Latin
America as Unamuno, Ortega y Gasset, Lorca, Asturias, Neruda, and Octavio
Paz. Either semester may be taken separately. Prerequisites: Spanish 301 and
302 or permission of the instructor. Each 3 hours, 3 credits.

SPEECH

111. Fundamentals of Speech I
Development of clear, confident, and effective speech through guided
practice. Study of the fundamentals of oral and non-verbal communication.
The constituents of spoken language, methods of eliminating stage fright.
Voice production, phonetics, diction, vocal variety and emphasis, oral
interpretation and other oral communication skills. 3 hours, 3 credits.
MUSIC / PHILOSOPHY AND RELIGION

204. Music in World Culture
The historical, social, and cultural background of the music of selected geographical areas in relation to the music of the past and present. Emphasis on the traditional musics of Asia, Africa, the Middle East, and the Americas. Prerequisite: Permission of the instructor. 3 hours, 3 credits.

205. Beethoven, Verdi, Stravinsky
Study of the lives and works of these composers, with emphasis on the analysis of their musical styles. The relationships between their works and those of other composers, and the impact of social and cultural changes on their works. Prerequisite: Music 101, 102 or the equivalent. 3 hours, 3 credits.

PHILOSOPHY AND RELIGION

101. Introduction to Philosophy
Readings from classic and contemporary philosophers; discussion of the nature of philosophical problems, the use of philosophical arguments, and the role of systematic thinking in philosophy. 3 hours, 3 credits.

202. Moral Philosophy
Ethics and its place among the problems of philosophy; an historical and comparative study of ethical theories. 3 hours, 3 credits.

203. Political Philosophy
The philosophical presuppositions concerning man's nature that are inherent in political theories from Plato to Marx. Concepts of sovereignty, freedom, authority, and law in the light of their political and educational ramifications. 3 hours, 3 credits.

204. The Nature and Use of Logic
Formal logic as the method of reasoning. Analysis of statements into logical primitives and systematic development of deductive techniques. Problems in the relation of language to fact: meaning, reference, necessity, truth, induction. Philosophic views of the use of logic and what it reveals about language and reality. Prerequisite: Mathematics 105. 3 hours, 3 credits.

211. A Short History of Philosophy
A survey of the chief ideas and figures in the history of philosophy from the pre-Socratics through the ancient Greek, medieval, modern, and contemporary philosophies. Focus is on two or three key figures in each period. Among those discussed are Plato, Aristotle, St. Thomas Aquinas, Descartes, Hume, Kant. 3 hours, 3 credits.

212. The Philosophy of Knowledge
Studies in epistemology; the problems of knowing and verifying. Platonic and Cartesian dualism are analyzed and criticized. Readings from Plato represent the ancient view; from rationalist Descartes and empiricist Berkeley, the modern view; from Russell and Ryle, the contemporary view. Prerequisite: Completion of one course in philosophy or permission of the instructor. 3 hours, 3 credits.
301. Philosophy of Art
Theories of beauty, creativity, and expression. Emotion and art. Art and society. Aesthetics and ethics. Readings include: Aristotle, Plotinus, Lessing, Kant, Hegel, and Nietzsche. 3 hours, 3 credits.

302. American Philosophy
Colonial political philosophers. Philosophical theology. Idealism, pragmatism, instrumentalism, and language analysis. Readings include: Edwards, Emerson, Pierce, Royce, Santayana, James, Dewey, and Whitehead. Prerequisite: One introductory course in philosophy. 3 hours, 3 credits.

303. Philosophy of Religion
Critical examination of religion from the philosophical point of view. The case for a reasoned argument for the existence of God in Plato, Aristotle, and medieval Thomism; a rejoinder from Kant and his successors; the status of debate in philosophy today. Prerequisite: One introductory course in philosophy. 3 hours, 3 credits.

PHILOSOPHY—LAW

310. Ethics and Law
Inquiry into the relationship between morality and law: their organic interrelationship in the natural law tradition; their separation in positivism. The contemporary debate illustrated by the issues of human and civil rights; the enforcement of sexual morality; civil disobedience; and the ethics of law enforcement. (Open only to juniors and seniors.) 3 hours, 3 credits.

RELIGION

201. Comparative Religion I
The doctrines and development of the western religions: Judaism, Christianity, and Islam. Historical and literary criticism applied to sacred texts. Field trips to local houses of worship. 3 hours, 3 credits.

202. Comparative Religion II
Examination of the doctrines and development of eastern religions: Hinduism, Jainism, Buddhism, Confucianism, and Taoism. 3 hours, 3 credits.

SPANISH

101-102. Introductory Spanish
Basic course with emphasis on conversation, intended primarily for non-Hispanic students. Only those Hispanic students who have no knowledge of the language may enroll. Teaching of colloquial expressions by oral drill, supplemented by written exercises. Two consecutive terms. No credit for 101 unless 102 is completed. Each 3 hours, 3 credits.
111-112. Basic Readings and Writings for Hispanic Students
A course for Hispanic students who have a speaking knowledge of their
language but who need practice in reading and writing. Written work based
on brief prose selections. This course fulfills the one-year foreign language
requirement. Two consecutive terms. No credit for 111 unless 112 is
completed. Prerequisite: Placement examination. Each 3 hours, 3 credits.

201-202. Intermediate Conversational Spanish for Non-Hispanic Students
Emphasis on conversation and reading of modern prose. Prerequisite:
Successful completion of one year of college Spanish or three years of high
school Spanish. Either term may be taken separately. Each 3 hours, 3
credits.

211-212. Intermediate Conversational Spanish for Hispanic Students
Entirely in Spanish. Vocabulary enlargement and improvement for students
with prior conversational ability. Some emphasis on Hispanic culture in
general. Each 3 hours, 3 credits.

301. Introduction to Spanish Literature
The development of Spanish literature with special emphasis on major
literary movements through selected readings of representative authors and
genres. Prerequisite: Spanish 202, 212, or permission of the instructor. 3
hours, 3 credits.

302. Introduction to Latin American Literature
Study of the development of Latin American literature from the sixteenth
century to the present with special emphasis on major literary movements
through selected readings. Prerequisite: Spanish 202, 212, or permission of
the instructor. 3 hours, 3 credits.

311. Advanced Grammar, Composition, and Conversation
Detailed analysis of the more subtle elements of Spanish grammar, of
exceptions to the norm, and of recent trends in the development of the
language. Translation into Spanish and the composition of original essays
afford the student ample practice in writing and speaking idiomatic Spanish.
Prerequisite: Spanish 202, 212, or permission of the instructor. 3 hours,
3 credits.

401-402. Contemporary Issues in Hispanic Literature
Analytical study of contemporary philosophical, political, and esthetic issues
as reflected in the writings of such modern authors of Spain and Latin
America as Unamuno, Ortega y Gasset, Lorca, Asturias, Neruda, and Octavio
Paz. Either semester may be taken separately. Prerequisites: Spanish 301 and
302 or permission of the instructor. Each 3 hours, 3 credits.

SPEECH

111. Fundamentals of Speech I
Development of clear, confident, and effective speech through guided
practice. Study of the fundamentals of oral and non-verbal communication.
The constituents of spoken language, methods of eliminating stage fright.
Voice production, phonetics, diction, vocal variety and emphasis, oral
interpretation and other oral communication skills. 3 hours, 3 credits.
112. Fundamentals of Speech II
The various purposes of public oral communication and the model structures of effective presentation are discussed. Students are given regular opportunities to deliver talks and participate in discussions. Concentration is on the organization of the material to achieve the speaker’s desired effect. Emphasis on effective preparation and presentation of material and use of voice and body. 3 hours, 3 credits.

201. Argumentation and Debate
The function of argumentation as a mode of human communication; its origins, development, techniques, and purposes. Individual and team presentations, parliamentary procedure, audience analysis. The ethics of debate. Prerequisite: Speech 112. 3 hours, 3 credits.
203. Oral Interpretation of Literature
Development of delivery techniques including phrasing, emphasis, inflection, and vocal variety to convey meaning and express feeling. Individual exercises in interpretation followed by critical evaluation. Prerequisite: Speech 112. 3 hours, 3 credits.

204. Group Discussion and Conference Techniques
The theoretical and practical aspects of group functioning. By involvement in various group situations, the student learns the procedures of organizing, leading, and participating in private and public discussion. Prerequisites: Speech 111 and 112. 3 hours, 3 credits.

207. Varieties of Rhetoric
Study of speeches which have changed the course of history. Emphasis on structure, style, and use of rhetorical devices as well as content. Among the speakers studied are Pericles, Burke, Pitt, Webster, Lincoln, Churchill, and Roosevelt. Prerequisites: Speech 111 and 112. 3 hours, 3 credits.

209. Dialect, Accent, and Voice for the Communication Media
Designed for the development of superior skills suitable for the professional speaker. The relationship of anatomical factors to vocal production are utilized in developing vocal techniques. Prerequisites: Speech 111 and 112. 3 hours, 3 credits.

LAW—SPEECH

213. The Impact of the Mass Media on the Administration of Justice
Examination of the role of the media—TV, radio, newspapers, and magazines—on the administration of justice. The influence of the media on the jury and the judge. The dangers of "Trial by Newspaper" and of TV in the courtroom. Is impartial justice possible? The British approach. Problems of free speech and press; "contempt by the publication" rule; constitutional protections. Suggested guidelines for the media. The psychological basis of audience response. Spring only. 3 hours, 3 credits.

PSYCHOLOGY—SPEECH

321. Psychology of Communication
Psychological, social, and biological foundations of man's linguistic ability. Origins and development of language, problems in linguistic meaning, nonverbal communications, interrelationship of speech and personality. Prerequisite: Speech 112. 3 hours, 3 credits.

322. Basic Linguistics
Introduction to linguistics as the study of the communicative behavior of man. Synthesizing relationship of linguistics with other disciplines. Correlation of linguistics with communicative systems in general. Prerequisite: Speech 112. 3 hours, 3 credits.
DIVISION OF behavioral sciences

Chairman: Dorothy H. Bracey
Deputy Chairman: C. Abraham Fenster (Psychology), Donald Goodman (Sociology), Edward Larrabee (Anthropology)


Associate Professors: Dorothy Bracey, C. Abraham Fenster, Israel Gerver, David Goddard, Donald Goodman, Nathan H. Gould, Yasuko Jacquet, Gerald W. Lynch, Frederick Pauling, William R. Taber, William R. Tortorella, Martin Weitzner

Assistant Professors: Joseph Balkin, Anne R. Bloom, Robert L. Bonn, Peter Buirsiki, J. Scott Francher, Richard Greenbaum, Alan Goldstein, Constance Katz, Edward Larrabee, Kenneth Laudon, James Levin, Thomas Litwack, Raymond Pitt, Robert W. Rieber, David Sternberg, George F. Tulley, Carl F. Wiedemann, Frederick Wright

Instructors: Harvey Bernstein, Silvio Dobry, Richard Faust, Elizabeth Hegeman, Roberta Jacobs, Peter Lincoln, Robert Nible, Adele Oliver, Hilda R. Richelson, Natalie J. Sokoloff, Edward Shaughnessy, Cathy White

Lecturer: Janet Henkin

Adjunct Associate Professor: Valentine Winsey

Adjunct Assistant Professors: Ira Contente, Sam Janus, Sol Ribner, Carol Rogalski, Harold Schiff, Murray Snyder, Martin Symonds

Adjunct Lecturers: Joyce Barrett, Napoleon Chow, Dan Gerber, Michael Gillman, Ilse Hayden, Fred Kramer, Eileen Lang, Sidney Langer, Douglas Lipton, Elinor Mannucci, Ellen Messing, Harvey Musikoff, Annetta Nadler, Serena Nanda, Amrit Pandey, Joy Satok, Thomas Simpson, Howard Spivak, Milton Stroud, Blake Thurman, Claire Warga

The following courses are cross-listed within the various sections of the Behavioral Sciences Division:

Anthropology—Psychology—Sociology 310. Culture and Personality
Anthropology—Psychology 390. Ethology
Sociology—Psychology 202. The Family
Anthropology—Psychology—Sociology 326. (For majors), 325. (For nonmajors) Research Methods in the Behavioral Sciences
Anthropology—Psychology—Sociology 210. Sex and Culture
Psychology—Sociology 213. Racial and Ethnic Relations
Psychology—Sociology 313. Evaluation of Social Action Programs

ANTHROPOLOGY

101. Introduction to Cultural Anthropology
An introductory course in cultural anthropology that includes work in physical anthropology and archaeology. 3 hours, 3 credits. Staff.
102. Introduction to Physical Anthropology
The interrelationship of cultural, social, and biological factors in human evolution. The evolution, distribution, and composition of modern human populations. Processes of physical differentiation: hereditary processes in contemporary populations. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

201. Race and Culture Contacts
Contact and conflict of racial and ethnic groups, acculturation and assimilation. Prospects and problems of race and ethnicity in America. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

202. Social Organization
Comparison of social organization in several societies, including studies of kinship, government, and religious organization. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

203. Culture History and Archaeology
Development of early cultures in the Old and New Worlds. Methods of studying prehistoric cultures. Prerequisite: Anthropology 101. 3 hours, 3 credits. Larrabee.

208. Urban Anthropology
Anthropological studies of contemporary complex cultures. Various ethnic groups in the urban environment. Prerequisite: Anthropology 101. 3 hours, 3 credits. Jacobs.

210. Sex and Culture
Study of behavioral and psychological differences between males and females in the light of contemporary theories of social structure, social learning, and individual development. Emphasis on the examination of contemporary theoretical issues in cross-cultural perspective. (Same course as Psychology 210 and Sociology 210.) Prerequisite: Anthropology 101 or Psychology 101 or 102, or Sociology 101. 3 hours, 3 credits. Bracey, Hegeman.

212. Applied Anthropology
Consideration of past and possible future applications of anthropology in such fields as social work, census, medicine, and other areas involving directed social and cultural change. Prerequisite: Anthropology 101. 3 hours, 3 credits. Francher, Richelson.

213. Peasant Society and Culture
Characteristics and relations of peasants in cross-cultural perspective. Studies of communities in Asia, Europe, and the Americas. Prerequisite: Anthropology 101. 3 hours, 3 credits. Francher.

214. Religion and Ideology
Cross-cultural study of religious beliefs and practices and the ways in which these are related to other aspects of culture. Prerequisite: Anthropology 101. 3 hours, 3 credits. Bracey, Gould.
215. Comparative Technology
Study of the tools by which man attempts to deal with his environment. Prehistoric, historic, and contemporary cultures are considered. Prerequisite: Anthropology 101. 3 hours, 3 credits. Larrabee.

217. Language and Culture
Study of the structure of languages, their historical interrelationship, and linguistic change. Relationship between language and other aspects of culture. Special interests and issues in contemporary anthropological linguistics. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

302. Theory and Method in Social Anthropology
Study of some of the most influential theories of social structure and social change. Consideration of field work techniques. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

305. Area Studies
Designed to foster acquaintance with a specific area of the world through a study of its traditional cultures; included are prehistory, social organization, religion, art, and economics. The specific area is to be selected by the instructor and will vary. The area offered is designated by letters following the course number as follows: 305a—North America; 305b—South America; 305c—Africa; 305d—Oceania; 305e—Asia; 305f—Mediterranean. The student may take 305 for credit more than once, provided that he does not repeat study of the same area. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

310. Culture and Personality
The factors in, and the effects of, cultural conditioning on the biological foundations of personality. A study, on a cross-cultural basis, of the conditioning factors of child care and training, group value attitudes, practices, and culture forms, with reference to basic personality formation. Prerequisite: Anthropology 101. (Same course as Psychology/Sociology 310.) 3 hours, 3 credits. Francher.

315. Systems of Law
Cross-cultural comparison of legal systems, with emphasis on preliterate societies. Consideration of concepts of justice, rules of evidence, methods of punishment and rehabilitation. Prerequisite: Anthropology 101. 3 hours, 3 credits. Staff.

325. Research Methods in the Behavioral Sciences
Introduction to the design and execution of research projects in the behavioral sciences. Prerequisites: Psychology 101 or Sociology 101 and at least 6 additional credits in the behavioral sciences at the 200 level or above. Not open to Behavioral Science majors. (Same course as Psychology/Sociology 325.) 3 hours, 3 credits. Staff.

326. Research Methods in the Behavioral Sciences
Introduction to the design and execution of research projects in the behavioral sciences. Prerequisites: Psychology 101 or 102 or Sociology 101
and at least 6 additional credits in the behavioral sciences at the 200 level or above and Statistics 201. (Same course as Psychology/Sociology 326.) 3 hours, 3 credits. Staff.

390. Ethology
An attempt to account for certain patterns of human behavior by tracing their development in other species. Aggression, territoruality, dominance and submission, and social organization are studied. Emphasis on laboratory and naturalistic studies of the higher mammals, with some consideration of other phyla. Prerequisite: Anthropology 101. (Same course as Psychology 390.) 3 hours, 3 credits. Buirski.

PSYCHOLOGY

21. Social Perception
Normal and abnormal psychological factors in perception. Common illusions, adaptation, subliminal perception. The influence of set, social and cultural factors in perception; the formation of social norms; the continuum of normal and abnormal perception, including fantasy, stereotyping, regression, denial, projection, sublimation, and reaction formation. 2 hours, 2 credits. Staff.

101. General Psychology
Research techniques, personality, emotion, behavior pathology, social psychology, heredity and development, tests and measurement, language, thinking and problem-solving. 3 hours, 3 credits. Staff.

102. General Psychology
Consideration of motivation, learning, physiological psychology, sensation and perception, statistics, history of psychology, and applications of psychology. 3 hours, 3 credits. Staff.

201. Abnormal Psychology
Survey of changing conceptions of abnormal behavior and its treatment. Evaluation of the roles played by heredity and the environment in the production of a typical behavior and the various therapeutic approaches to mental illness. Films and taped interviews are used. Field trip to a psychiatric hospital. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Fenster, Guller, Wiedemann.

202. The Family
The family in various cultures, but particularly in American society, from the standpoint of its organization and relation to other social institutions. Emphasis placed on the family as an institution of socialization, social control, and reproduction. Cyclical features of the family: courtship, marriage, parenthood, sex and contraception, aging, and family dissolution. Family crises in contemporary American society. Prerequisite: Sociology 101, or Psychology 101 or 102. (Same course as Sociology 202.) 3 hours, 3 credits. Pitt.
203. Psychology of Adjustment
A seminar for the purpose of exploring and clarifying common problems of personal and social adjustment by means of psychological principles. Approaches to the understanding of personality functioning and personality disorders are surveyed. Emphasis on normal modes of personality adjustment. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Waxenberg.

204. Psychology of Personality
Critical survey of modern approaches to the organization and development of personality. An attempt is made to integrate experimental, clinical, and cultural evidence, with some consideration of problems of personality adjustment. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Buirski, Fenster.

205. Adolescent Psychology
Survey of the psychology of adolescence and youth. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Bahn, Bloom, Levin.

207. Developmental Psychology
Personality development in individuals; thinking and cognition. Theories relating to human development are explored along with the relevant research. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Bloom, Katz.

209. The Exceptional Individual
Consideration of the diagnosis and psychological treatment of the intellectually gifted, the creative, the mentally retarded, the culturally deprived, those with speech disorders, and the physically handicapped. The causes of individual exceptionality are also explored. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Goldstein.

210. Sex and Culture
Study of behavioral and psychological differences between males and females in the light of contemporary social science theories of social structure, social learning, and individual development. Emphasis on the examination of contemporary theoretical issues in cross-cultural perspective. Prerequisite: Anthropology 101, Psychology 101 or 102, or Sociology 101. (Same course as Anthropology 210 and Sociology 210.) 3 hours, 3 credits. Bracey, Hegeman.

213. Racial and Ethnic Relations
Interdisciplinary analysis of social, psychological, and cultural aspects of race and ethnicity in modern and traditional societies. Prerequisite: Sociology 101, Psychology 101 or 102, or Anthropology 101. (Same course as Sociology 213.) 3 hours, 3 credits. Staff.

301. Social Psychology
Systematic presentation of findings and theories relating to the influences of society on behavior. Primary concentration is on group processes in a complex society. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Bernstein, Levin.
302. Experimental Psychology
Application of the experimental method to the analysis of behavioral phenomena in human beings and animals. Design and execution of experiments in conditioning, learning, perception, motivation, conflict. Selected personality problems. Prerequisites: Psychology 101 or 102, Statistics 201. 5 hours, 4 credits. Jacquet, Locke.

303. Group Dynamics
Survey of the nature and functioning of various types of groups. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Guller.

305. History and Systems of Psychology
History and present status of conceptual trends in psychology. The development of psychological principles and theories are traced from the early Greek philosophers and empiricists to their embodiment in contemporary psychological theory: structuralism, functionalism, psychoanalysis, behaviorism, gestalt, and others. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Bernstein, Weitzner.

307. Psychology of Learning
Examination of classical and contemporary learning theory. Areas covered include classical conditioning, instrumental, operant, human verbal learning and retention. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Jacquet.

309. Introduction to Tests and Measures
Critical examination of the methods and techniques employed in the measurements of mental and motor abilities, attitudes, interests, and opinions. Prerequisites: Psychology 101 or 102 and Statistics 201. 3 hours, 3 credits. Bloom, Fenster, Wiedemann.

310. Culture and Personality
The factors in, and the effect of, cultural conditioning on the biological foundations of personality. A study, on a cross-cultural basis, of the conditioning factors of child care and training, group value attitudes, practices, and culture forms, with reference to basic personality formation. Prerequisite: Anthropology 101. (Same course as Anthropology/Sociology 310.) 3 hours, 3 credits. Francher.

313. Evaluation of Social Action Programs
Interdisciplinary analysis of social action programs with needs, program objectives, and evaluation of the impact of the program. Examples of fields covered include delinquency prevention, psychiatric rehabilitation, public health, and education. Prerequisites: Sociology 101, Psychology 101 or 102, or Anthropology 101, and Anthropology, Psychology, and Sociology 325 or 326. (Same course as Sociology 313.) 3 hours, 3 credits. Staff.

315. Psychology of Motivation
Examination of the historical development of the concept of the motivation of behavior. A critical analysis of current theory and research. Problems dealing with the development and measurement of motives are considered. Prerequisite: Psychology 101 or 102. 3 hours, 3 credits. Levin.
321. Psychology of Communication
The psychological, social, and biological foundations of man's linguistic ability. Origins and development of language, problems in linguistic meaning, nonverbal communication, interrelationship of speech and personality. Prerequisite: Speech 112. (Same course as Speech 321.) 3 hours, 3 credits. Rieber.

322. Basic Linguistics
Introduction to linguistics as the study of the communicative behavior of man. The relationship of linguistics to other disciplines. Correlation of linguistics and communicative systems in general. Prerequisite: Speech 112. (Same course as Speech 322.) 3 hours, 3 credits. Staff.

325. Research Methods in the Behavioral Sciences
Introduction to the design and execution of research projects in the behavioral sciences. Prerequisites: Psychology 101 or Sociology 101, and at least 6 additional credits in the behavioral sciences at the 200 level or above. Not open to behavioral science majors. (Same course as Anthropology/Sociology 325.) 3 hours, 3 credits. Staff.

326. Research Methods in the Behavioral Sciences
Introduction to the design and execution of research projects in the behavioral sciences. Prerequisites: Psychology 101 or 102, or Sociology 101 and at least 6 additional credits in the behavioral sciences at the 200 level or above and Statistics 201. (Same course as Anthropology/Sociology 326.) 3 hours, 3 credits. Bahn, Weitzner, Wiedemann.
390. Ethology
An attempt to account for certain patterns of human behavior by tracing their development in other species. Aggression, territoriality, dominance and submission, and social organization are studied. Emphasis on laboratory and naturalistic studies of the higher mammals, with some consideration of other phyla. Prerequisite: Anthropology 101. (Same course as Anthropology 390.) 3 hours, 3 credits. Buirski.

401. Seminar in Psycho-Social Problems
Critical examination of selected areas in social psychology. Individual and/or group research on related problems such as communication, propaganda, crowd behavior, etc. Prerequisite: Completion of 15 credits in the major field including Psychology 301. 3 hours, 3 credits. Bahn, Pauling.

SOCIAL WELFARE

301.
An overview of social welfare in the United States as it is organized into the various fields of practice and methods. 3 hours, 3 credits. Piven.

302.
Analysis of major contemporary issues in the objectives, structure, and professionalization of social welfare. Special attention to the various models advocated for provision and delivery of social welfare services. The characteristics and development of practice knowledge that is scientifically based, and the role of this knowledge in the various service models. 3 hours, 3 credits. Staff.

SOCIOLOGY

21. Group Interaction Analysis
Analysis of behavior in groups, with particular emphasis on small groups. Cooperation vs. competition; leaderless discussion and task groups. Dyads, Triads, and small group analysis. Crowds, mobs, and large groups. Marginality, minorities, and majorities; social movements; public opinion and propaganda. 2 hours, 2 credits. Staff.

101. Introductory Sociology: Sociological Analysis
The study of modern society: social groups, social organization, processes of interaction, social disorganization and change. Such topics as family organization, ethnic and class relations, culture and personality and urbanization are considered. 3 hours, 3 credits. Staff.

102. Introductory Sociology: Sociological Issues in Modern Society
The sociological perspective is further developed and applied to contemporary social issues and problems. Topics analyzed are the distribution of power, wealth, and prestige; relations between groups; institutional and organizational change; deviancy and conformity; and changing sexual mores. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.
201. Urban Sociology
The sociology of the city. The forces leading to urbanization. Effects of personality, recreation, health, family, religion, population, and government. Prerequisite: Sociology 101. 3 hours, 3 credits. Walker.

202. The Family
The family in various cultures, but particularly in American society, from the standpoint of its organization and relation to other social institutions. Emphasis on the family as an institution of socialization, social control, and reproduction. Cyclical features of the family: courtship, marriage, parenthood, sex and contraception, aging, and family dissolution. Family crises in contemporary American society. Prerequisite: Sociology 101, or Psychology 101 or 102. (Same course as Psychology 202.) 3 hours, 3 credits. Pitt.

203. Criminology

205. Juvenile Delinquency
Biological, psychological, and sociological factors in juvenile delinquency. A survey of theories of juvenile delinquency. Modern trends in prevention and treatment. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.

206. Sociology of Conflict
The genesis of social conflict. Informal and formal conflict resolution mechanisms considered with respect to their mode of operation and social context. Materials are drawn from sociological and anthropological literature and from recent studies of the use of mediation and arbitration in the resolution of commercial, labor, and national disputes. Prerequisite: Sociology 101. 3 hours, 3 credits. Bonn.

207. History of Modern Social Thought
Introduction to the writings of distinguished social scientists and philosophers who have shaped the traditions and conflicts of modern sociological analysis. Prerequisite: Sociology 101. 3 hours, 3 credits. Taber.

208. Collective Behavior
The dynamics and interplay of the individual with his society and culture. The effects and functions of stereotypes, prejudices, social myths, crowds, publics, extremist movements, mob violence, fashions, fads, etc. Mass communications, audiences, and the impact of mass media on society are also considered. Prerequisite: Sociology 101. 3 hours, 3 credits. Server.
209. Sociology of Work
The significance of work in industrial society. The American occupational structure; occupational communities and associations; the bureaucratization of work; occupational alienation; occupational crime. Prerequisite: Sociology 301. 3 hours, 3 credits. Bonn.

210. Sex and Culture
Study of behavioral and psychological differences between males and females in the light of contemporary social science theories of social structure, social learning, and individual development. Emphasis on the examination of contemporary theoretical issues in cross-cultural perspective. Prerequisite: Anthropology 101 or Psychology 101 or 102, or Sociology 101. (Same course as Psychology 210 and Anthropology 210.) 3 hours, 3 credits. Bracey, Hegeman.

211. Social and Cultural Change
Theory and description of causations, modes, and consequences of change in social and cultural systems. Evolutionary and revolutionary change; historical and contemporary change. Impact of technology, knowledge, generational succession, social contradiction, class, and population. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.

212. Structure of Modern American Society
Descriptive and empirical survey of social and cultural institutions of modern Western society, with emphasis on the structure of contemporary America. This course is intended to provide the student with a systematic sociological familiarization with his own society. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.

213. Racial and Ethnic Relations
An interdisciplinary analysis of social, psychological, and cultural aspects of race and ethnicity in modern and traditional societies. Prerequisite: Sociology 101, Psychology 101 or 102, or Anthropology 101. (Same course as Psychology 213.) 3 hours, 3 credits. Staff.

214. The Sociology of Education
The sociological study of educational organizations as formal organizations. Their culture, role structure, and bureaucratic styles. The classroom as a social system, the characteristics of students and teachers, and the sociological determinants of academic performance. The relationship between schools and their communities with special emphasis on social class and ethnic composition, school and governing boards, parent and alumni organizations, and legislative bodies. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.

217-218. Man in Contemporary Society
Introduces the student to major intellectual issues and premises of this century. The first semester acquaints him with intellectual traditions of the past half century that have affected modern conceptualizations of man and society. The second semester concentrates upon more specific political,
American occupational structures: the bureaucratization theme. Prerequisite: Sociology 101 or 102.

219. The Sociology of Violence
Comparative analysis of social, psychological, historical, cultural, and structural sources of collective and individual violence. Major attention devoted to the phenomenon of violence in modern industrial societies. Prerequisite: Sociology 101, Psychology 101 or 102, or Anthropology 210. 3 hours, 3 credits. Taber.

220. Population and Society
The study of societies from the perspective of their population characteristics and processes, including examination of population growth, mortality, fertility, and migration. Relationships between population characteristics and culture and social structure. Social implications of population dynamics. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.

278. Political Sociology
Analysis of the relationships of socio-psychological factors to political phenomena. The course involves an examination of man in political society and political society in man. Emphasis on the interdisciplinary study of power, authority, elites, political and social change, political violence, social inequality, technology, ideology, and political socialization. Prerequisite: Government 101 or Sociology 101. 3 hours, 3 credits. Staff.

301. Penology
Programs for the social treatment of criminals. The police system and criminal procedure. The penal and reformatory institutions in their physical, educational, and social aspects. Probation and parole problems. A survey of theories and practices in penology. Prerequisite: Sociology 203. 3 hours, 3 credits. Smith.

303. Probation and Parole: Principles and Practices
Administrative organization and management in probation and parole systems. Recruitment, training, assignment, and supervision of probation/parole officers. Prerequisite: Sociology 101. 3 hours, 3 credits. Piven.

304. Social Stratification
Systematic examination of the various dimensions of stratification: class, caste, estate, status, power, reputation, and class consciousness. The relationships between class structure and life chances, life styles, personality, mortality, and occupational choice. Measurement of class and social mobility. Prerequisite: Sociology 101. 3 hours, 3 credits. Faust.

305. The Sociology of Law
Study in sociological terms of the operation of law and the system of criminal justice. Prerequisite: Sociology 101. 3 hours, 3 credits. Blumberg.
306. Sociological Theory
Critical analysis of the principal intellectual perspectives of modern sociology, social causation, social structure, social process, role theory. Levels of sociological analysis: small groups, dyads, formal organizations, complex societies. A systematic study of some problems in sociological theory. Prerequisite: Sociology 101. 3 hours, 3 credits. Gerber.

307. Social Pathology and Deviance
Analysis of the manner in which societies come to define certain behavior as deviant. Particular attention to the social and cultural processes attendant upon such problems in modern America as social conflict, violence, civil disorder, crime, mental illness, suicide, addiction, sexual deviance, and social disorganization. Selected theories of pathology and deviance are examined. Prerequisite: Sociology 101. 3 hours, 3 credits. Staff.

310. Culture and Personality
The factors in, and the effects of, cultural conditioning on the biological foundations of personality. A study, on a cross-cultural basis, of the conditioning factors of child care and training, group value attitudes, practices, and culture forms, with reference to basic personality formation. Prerequisite: Anthropology 101. (Same course as Anthropology/Psychology 310.) 3 hours, 3 credits. Francher.

312. Advanced Sociological Methodology
Organizational and institutional analysis, area analysis, development of indices, introduction to mathematical models, simulation models, and data processing. Prerequisite: Anthropology, Psychology, or Sociology 326. 3 hours, 3 credits. Staff.

313. Evaluation of Social Action Programs
Interdisciplinary analysis of social action programs with needs, program objectives, and evaluation of the impact of the program. Fields covered include delinquency prevention, psychiatric rehabilitation, public health, and education. Prerequisites: Sociology, Psychology, or Anthropology 101, and Psychology or Sociology 326. (Same course as Psychology 313.) 3 hours, 3 credits. Staff.

314. Delivery of Services to Offenders: Issues of Social Policy
Assessment of social policies in relation to the selection, rehabilitation, control, and release of offenders. Issues concerning manpower needs and standards, models of service, and alternative models for organizational change. The role of professional and other interest groups in determining social policies for the delivery of services to offenders. 3 hours, 3 credits. Piven.

325. Research Methods in the Behavioral Sciences
Introduction to the design and execution of research projects in the behavioral sciences. Prerequisites: Psychology or Sociology 101 and at least 6 additional credits in the behavioral sciences at the 200 level or above. Not open to behavioral science majors. (Same course as Anthropology/Psychology 325.) 3 hours, 3 credits. Staff.
326. Research Methods in the Behavioral Sciences
An introduction to the design and execution of research projects in the behavioral sciences. Prerequisites: Psychology 101 or 102 or Sociology 101 and at least 6 additional credits in the behavioral sciences at the 200 level or above and Statistics 201. (Same course as Anthropology/Psychology 326.) 3 hours, 3 credits. Staff.

Study of human relations and problems of ethnic group members. Analysis of prejudice and discrimination. Examination of various organizations, public and private, engaged in intergroup relations. Consideration of case materials from social action programs in the United States and other nations. Prerequisites: Sociology/Psychology 213 and completion of 15 credits in the major field. 3 hours, 3 credits. Walker.

405. Social Systems
Seminar in the theory and analysis of social systems and comparative complex organizations of many types including the police, prisons, schools, business organizations, private agencies, and the military. Prerequisite: Completion of 15 credits in the major field, or permission of the instructor. 3 hours, 3 credits. Niederhoffer, Taber.

SOCIOLoGY—BLACK AND PUERTO RICAN STUDIES

221. Problems of the Black Ghetto
An intensive study of the social, political, economic, and psychological forces at work in the creation and perpetuation of the Black ghetto. The place and role of the public school, the municipal agencies, and federal, state, and municipal programs as they pertain to or influence the Black community. Prerequisites: Sociology 101 and Government 101 unless exemption is granted. 3 hours, 3 credits.

241. The Puerto Rican Experience in Urban United States’ Settings
Analysis of the historical, sociological, economic, and political experience of Puerto Ricans in the United States, emphasizing the study of legislation, policy, and practices regarding the Puerto Rican immigrant. Areas of research and examination are education, welfare, housing, health, employment, the church, and political parties and movements. 3 hours, 3 credits.

STATISTICS

201. Principles and Methods of Statistics
Introduction to statistical thinking as applied to the social sciences. Emphasis on the basic assumptions underlying statistical concepts and the role of statistics in the analysis and interpretation of data. Problems in frequency distributions, measures of location and variation, probability and sampling, tests of hypotheses and significance, linear regression and correlation, time series and index numbers. Prerequisite: One year of mathematics. 3 hours, 3 credits. Rubin, Sherwood, Wiedemann.
TEACHERS EDUCATION

The Department of Education of the Bernard M. Baruch College has agreed to make available to John Jay students, on an experimental basis, a limited number of its courses in professional education. Those courses and the semesters in which they will be offered, together with credits and course descriptions, are listed below. Students interested in taking one or more of these courses should observe the following:

1. Since registration is limited, the courses will be available on a priority basis, with seniors and upperclassmen given preference.

2. Students may begin their program with either Ed. 43 or Ed. 40 and Ed. 40.1. It is recommended, however, that students take both, since these courses will be offered only in alternate semesters. However, Ed. 40 and Ed. 40.1 are prerequisites for Ed. 41, 42 and 42.1 which must be taken concurrently.

3. Students must demonstrate a satisfactory level of written English and speech prior to admission to Ed. 41. Examinations in these areas will be administered by John Jay College early in the fall term.

4. All students are required to perform satisfactorily in field work experiences in courses numbered Ed. 40.1 and 42.1. These experiences require three hours weekly. Students will be assigned by the Department of Education of Baruch College.

5. Students should realize that this is a limited program and there is no assurance that students who complete it will be duly licensed to teach in New York City. It is suggested that those who are interested in ascertaining their eligibility for such a license communicate with the Bureau of Recruitment of the Board of Education at 65 Court Street.

COURSES OFFERED – FALL 1973

Ed. 40. The Psychology of Childhood and Adolescence in an Urban Center
An intensive study of the principles of human development from birth to young adulthood with special emphasis on the educational and psychological engineering techniques derived from such principles. The study includes specific consideration of physiological, cognitive, emotional, and social growth factors, the limitations imposed upon adequate development, methods and programs for enhancing development at each stage, as well as socioecological considerations. 3 hours, 3 credits.

Ed. 40.1. Field Work in Community Services
Field experience related to the study of human development with special emphasis on the management of educational and/or recreational groups. In addition to 2 hours per week of field experience, there is a one-hour class meeting weekly for analysis and review of methods and reports. 3 hours, 2 in field; 1 in class, 1 credit.

Ed. 43. Problems of Contemporary Education in Perspective
This course considers selected ideas underlying current practices in American education. Emphasis is on the foundations which have shaped modern
American education. The contributions of the social and behavioral sciences are drawn upon to identify the relationship between education and American society and its political and economic development. 3 hours, 3 credits.

COURSES OFFERED – SPRING 1974

Educ. 41. Theories of Learning in Teaching
The basic principles of the major learning theories, with emphasis on the relevance and relationship of these theories to an urban school setting. 2 hours, 2 credits.

Educ. 42. Curriculum and Teaching in Urban Schools
This course considers the practical application of learning theory to curriculum and teaching in inner city schools. Included is examination of principles of curriculum building and general approaches to a variety of teaching strategies. 2 hours, 2 credits.

Educ. 42.1. Field Work in Education Services
Field experience related to the study of learning theories and teaching practices on the basis of one-to-one, or one-to-two tutorial situations with elementary, junior high, or senior high school students. Prerequisites: Education 40 and 40.1; Corequisites: Education 41 and 42. 3 hours, 2 in field; 1 in class, 1 credit.

IMPORTANT: Educ. 40 and Educ. 40.1 must be taken concurrently. Similarly, Educ. 41, 42 and 42.1 must be taken concurrently in a subsequent spring term.

Educ. 60. Diagnosis of Reading Difficulties in the Classroom
This course examines the sources, diagnosis, and the remediation of reading difficulties in the context of the teacher’s subject matter specialization. 2 hours, 2 credits.

DIVISION OF BLACK AND PUERTO RICAN STUDIES

Chairman: To be announced
Director of Black Studies: F. Beresford Jones
Director of Puerto Rican Studies: Migdalía de Jesús Torres de García
Assistant Professors: Migdalía de Jesús Torres de García, F. Beresford Jones, Emily Malia
Instructor: Maina-wa Kinyatti
Lecturers: Altagracia Ortiz-Squillace, Ariel Ruiz

BLACK AND PUERTO RICAN STUDIES–HISTORY

211-212. African-American History I and II
In the first semester, a study of the African background and origins of Black people in the Americas, concentration on the slave trade and on the
development of the slave systems in the West Indies and in the United States, emphasis on resistance and abolition movements, the Civil War. In the second semester, the War's end and the Reconstruction Period, the triumph of white supremacy in the 1890s, and the development of the Civil Rights and protest forces in the twentieth century. Each 3 hours, 3 credits. Jones

227. History of Puerto Rico I
History of the Puerto Rican people is traced from the indigenous cultures that existed prior to 1493 through the Spanish conquest and colonization, the introduction of Africans up to the middle of the nineteenth century—1868—when the Lareas revolt occurred. Emphasis on the nineteenth century, the formation of the Puerto Rican nationality, and the variety of political movements. 3 hours, 3 credits.

228. History of Puerto Rico II
From the latter part of the nineteenth century to the present. The last years of Spanish domination and the American invasion of 1898. A study of the political and economic aspects of Puerto Rico under American colonialism. Rise of the Nationalist movement and the Popular Democratic Party. 3 hours, 3 credits.

341. African History
A study of the period from the earliest African civilization to the late nineteenth century. The effect of the great religions, Christianity and Islam, in relationship to the development of the African cultures. The function of language and trade as they contribute to the sociopolitical development of the continent. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Maliwa.

342. Contemporary Africa
An examination of contemporary African social and political thought, with a study of the major movements. The nature and background of Pan-Africanism and the concept of the “Black Diaspora” are explored. Recent African groupings such as the Brazzaville group, the Casablanca powers, the Monrovia states, and the Ghana-Guinea-Mali Union are studied. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Maliwa.

BLACK AND PUERTO RICAN STUDIES—LITERATURE

205-206. Black Literature I and II
A survey of African-American poetry, drama, fiction, and nonfiction, from the Revolutionary period to the present. Prerequisite: English 101-102 and Speech 111, unless exemption is granted. 3 hours, 3 credits.

207. Puerto Rican Literature
A social study of the literary history of Puerto Rico through review of movements, styles, and authors and their works. The significance of various genres from the chronicles of the conquerors to realism and naturalism. Prerequisite: A reading knowledge of Spanish or permission of the instructor. 3 hours, 3 credits.
208. Puerto Rican Literature
Survey of the principal figures and philosophies of modern literature of Puerto Rico. Prerequisite: A reading knowledge of Spanish or permission of the instructor. 3 hours, 3 credits. Jones

BLACK AND PUERTO RICAN STUDIES—HISTORY—LITERATURE

210. Race and the Urban Situation
The effects of ethnicity and racism on personal and intergroup communications in the urban setting. The origins of prejudice and its effects upon society’s agents. Building an increased awareness of the student’s own attitudes toward race is a goal of the course. Included are readings in American history, literature, and sociology. 3 hours plus conferences, 3 credits. Lorde.

213. African-American Culture
African ethnic and cultural backgrounds serve as the foundation for an exploration of the culture of the Black man in the United States. Literature, music, art, drama, and dance are explored and their significance and relationship to the various movements are analyzed. The lifestyles of the Black communities are examined with focus upon residual problems which a racist society creates and perpetuates. 3 hours, 3 credits.

322. Literature of the African Revolution
Writings by sociopolitical thinkers such as Edward Wilmot Blyden, Nkrumah, Senghor, Nyerere, and Padmore. Okot p’Bitek, Chinua Achebe, Alex LaGuma, Wole Soyinka, James Ngugi, and Frantz Fanon are included. Essays, stories, plays, poems, and novels. Prerequisites: English 101-102, Speech 111—unless exemption is granted—and one other course in literature or permission of the instructor. 3 hours, 3 credits. Kinyatti.

335. Theory and Ideology of Black Revolution
An in-depth study of the men and ideas most important in the shaping of the Black America of today. Emphasis upon twentieth century development. Key figures include Frederick Douglass, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Eldridge Cleaver. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Jones.

PUERTO RICAN STUDIES—ANTHROPOLOGY

345. Puerto Rican Culture and Folklore
A study of the emergence of a national culture, and folklore. Topics include the Taino, Spanish, and African cultural contributions to the creation of a Puerto Rican personality and character. A review of costumes, traditions, beliefs, celebrations, dances, legends, songs, etc. The impact of the culture of the United States upon the Puerto Rican culture and the resulting conflicts. 3 hours, 3 credits. M. de Jesus Torres de García.
BLACK AND PUERTO RICAN STUDIES—SOCIOLOGY

221. Problems of the Black Ghetto
An intensive study of the social, political, economic, and psychological forces at work in the creation and perpetuation of the Black ghetto. The place and role of the public school, the municipal agencies, and federal, state, and municipal programs as they pertain to or influence the Black community are studied. Prerequisites: Sociology 101 and Government 101, unless exemption is granted. 3 hours, 3 credits.

241. The Puerto Rican Experience in Urban United States' Settings
Analysis of the historical, sociological, economic, and political experience of Puerto Ricans in the United States, emphasizing the study of legislation, policy, and practices regarding the Puerto Rican immigrant. Areas of research and examination are education, welfare, housing, health, employment, the church, and political parties and movements. 3 hours, 3 credits. M. de Jesus Torres de García.

SWAHILI

101-102. Introductory Swahili
Primary stress on speaking, reading, and writing. The function of African language and the interrelation between the dialects and the trade languages. The place and function of Swahili as a language indispensable to intercommunication between tribes and nations. Knowledge of Swahili is also essential for a firm grasp of African culture. No previous knowledge required. Prerequisites: English 101-102 and Speech 111, unless exemption is granted. Each 4 hours, including 1 hour workshop or lab, 3 credits. Kinyatti.

DIVISION OF ENGLISH

Chairman: Ira L. Bloomgarden
Deputy Chairman of Freshman Composition and Basic Literature: Patricia Licklider
Professors: Robert C. Pinckert, Claire Sprague
Associate Professors: Anne T. Barbeau, Ira L. Bloomgarden, Arthur Brown, Arthur S. Pfefker
Lecturer: Francis X. Nulty
ENGLISH

All entering students must take a placement test in English composition. Those who perform very well will be placed in English 103 and will be exempted from the normal English 101-102 sequence. The majority of students will be placed in English 101 in an S (Small), M (Medium), or L (Large) section on the basis of raw writing ability and the amount of work required in the mechanics of composition. All students in English 101 will take a uniform final examination which is graded by the English staff.

The marks in the course for entering freshmen are A, P (Pass), and K (signifying that the course is to be repeated). English 102 is marked according to the traditional A-B-C-D-F system and the grade is determined by the individual instructor.

A student whose native language is not English and whose schooling has been in his native tongue should enroll in English 11 (English as a Second Language). At the completion of English 11 a student should enroll in English 12, or, upon the recommendation of his instructor, write the regular English 101 final examination; if he passes, he should go directly to English 102.

Students not in English 103 must continue to register each term for English 101 and 102 until these courses are completed. English 101 must be completed before a student may register for any course on the 200 level or higher.

11. English as a Second Language
Basic sentence patterns. Use of tenses, prepositions, and phrasal verbs. Intensive remedial work in problems of structure. Special attention to individual needs. 3 hours, 3 credits.

12. English as a Second Language
Continued work in grammar. Emphasis on skills in paragraph writing and development of a short theme. Analysis and organization of ideas. Individual conferences. 3 hours, 3 credits.

101. College Composition I
Review of the fundamentals of grammar, sentence structure, and paragraph development. Study of diction and basic style. Outlining and organization of short themes, as determined by the instructor. 3 hours plus conferences, 3 credits. Staff.

102. College Composition II
Continuation of English 101, with greater emphasis on interpretation and critical evaluation of outside material. Exercises in rhetorical form, including argumentation, inductive and deductive reasoning, comparison and contrast, cause and effect. Introduction to the use of the library. Composition of a short library or research paper. 3 hours plus conferences, 3 credits. Staff.
215. Workshop in Creative Writing
Supervised practice in the writing of poetry, the short story, and the novel. Student interests will help determine which forms are stressed. Prerequisite: English 102, unless an exemption is granted. Open to students who have taken English 111. 3 hours and conferences, 3 credits. Staff.

LITERATURE

Prerequisite to all literature courses on the 200 level or above are English 101 with a grade of A or English 102 and Literature 101, 102 or 103, unless otherwise noted and except for certain interdivisional courses such as those in Black and Puerto Rican Studies. Prerequisites may be waived only by permission of the Chairman of the English Division.

100. Introduction to Literature
Introduction to contemporary literature. Emphasis on techniques in analyzing and understanding a wide range of prose works. Primarily designed for freshmen who desire preparation for required literature courses. 3 hours, 3 credits. Staff.

101-102-103. Great Works of Western Literature
Students are introduced to landmarks of literature ranging from ancient times to the twentieth century, using English translations where necessary. Any two of the three offerings will satisfy the 6-credit requirement; the courses may be taken in any sequence.

101. The Ancient World: The Origins of Western Literature
This course considers Greek, Roman, Hebrew, and Christian works of antiquity that have been instrumental in shaping our civilizations and traditions. Such authors as Homer, Plato, Vergil, Aeschylus, Sophocles, the writers of the old and new testaments, and St. Augustine are examined. 3 hours, 3 credits. Staff.

102. The Middle Ages, The Renaissance, and The Enlightenment
The great literary works of the Middle Ages, the Renaissance, the seventeenth, and eighteenth centuries which helped to shape our literary tradition are considered. Works discussed are selected from such authors as Dante, Chaucer, Cervantes, Shakespeare, Milton, and Swift. 3 hours, 3 credits. Staff.

103. The Modern World: From Romanticism to the Present
The emergence of modern concepts and ideals as portrayed in the literature of the Romantic, Victorian, and Modern periods are discussed. A wide range of drama, poetry, novels, and short fiction is examined. Representative authors are chosen by the instructor, such as Goethe, Wordsworth, Dostoevski, Melville, Ibsen, Joyce, Eliot, and Faulkner. 3 hours, 3 credits. Staff.
201-202. American Literature
A study of the major works of American literature, including poetry, prose, fiction, and drama. Works are analyzed critically and placed in their cultural and historical settings. Either term may be taken separately. Prerequisite: Literature 101, 102 or 103.

201. From the Puritans to the Civil War
Puritan origins, Jeffersonian rationalism, the Romantic movement and Transcendentalism. 3 hours, 3 credits. Staff.

202. From the Civil War to the Present
Realism, naturalism, and modernism from Twain and James to contemporary writers. 3 hours, 3 credits. Staff.

221-222. Major English Writers
Selected works of major figures in English literature, from Chaucer to Dickens. Prerequisite: Literature 101, 102 or 103.

221. Chaucer, Malory, Spenser, Marlowe, Shakespeare, Jonson, Donne, Marvell, and Milton. 3 hours, 3 credits. Staff.

222. Dryden, Defoe, Swift, Johnson, Blake, Wordsworth, Byron, Keats, and Dickens. 3 hours, 3 credits. Staff.

301-302-303. Modern Literature
Dominant themes of literature in the twentieth century: the alienation of the artist; war and urbanization; freedom vs. social restraint; politics and psychology; the search for spiritual meaning; the absurd. American writers are not ordinarily covered (see Literature 202). Prerequisite: Literature 101, 102 or 103.

301. Continental Writers
Such writers as Tchekov, Ibsen, Camus, Proust, and Beckett. 3 hours, 3 credits. Staff.

302. British Writers
Such writers as Hardy, Conrad, Joyce, Lawrence, and Foster. 3 hours, 3 credits. Staff.

303. Modern Poetry
Such poets as Eliot, Yeats, Thomas, Auden, Rilke, Brecht, and Garcia Lorca. Non-English poets are read in translation. 3 hours, 3 credits. Staff.

313. Shakespeare
A study of representative plays typifying each period of Shakespeare’s development. Prerequisite: Literature 101, 102 or 103. 3 hours, 3 credits. Staff.

315. Existentialism
A study of the literary and philosophical response of modern critics such as Nietzsche, Kierkegaard, Tolstoy, Heidegger, Sartre, Marcel, Camus, and others to the dehumanizing forces of industrial society. Prerequisite: Literature 101, 102 or 103 or English 102. 3 hours, 3 credits. Staff.
327. Crime and Punishment in Literature
A study of works treating the theme of crime and related matters, such as motivation, guilt, and responsibility. Works are considered from the psychological, sociological, and philosophical points of view as well as from the purely literary standpoint. Authors include Aeschylus, Shakespeare, Dostoevski, Poe, Melville. Prerequisite: Literature 101, 102 or 103. 3 hours, 3 credits. Hellinger.

401. Seminar: Topics in Literature
An advanced seminar in selected writers, genres, periods, or topics. Topics will be announced in advance of preregistration. A research paper or other major project is required. Prerequisite: 12 hours of courses in literature or English on the 200-300 level or permission of the Chairman. 2 hours, 3 credits.

American Studies 401. Topics in American Studies
An advanced interdisciplinary seminar in selected issues and problems in American culture. Topics will be announced in advance of preregistration. A research paper or other major project is required. Prerequisite: Permission of the instructor. 2 hours, 3 credits.

The following courses are given jointly with the Divisions of Government, History and Economics, and Black and Puerto Rican Studies.

LITERATURE—HISTORY

220. Women in America
A topical, interdisciplinary examination of the history and status of women in America. Selected topics: archetypes and stereotypes, women's economic role, women in the arts. 3 hours, 3 credits. Staff.

LITERATURE—BLACK AND PUERTO RICAN STUDIES

205-206. Black Literature I and II
A survey of African-American poetry, drama, fiction, and non fiction, from the Revolutionary period to the present. Prerequisites: English 101-102 and Speech 111, unless exemption is granted. 3 hours, 3 credits.

207-208. Puerto Rican Literature I and II
A social study of the literary history of Puerto Rico through review of movements, styles, and authors and their works. The significance of various genres from the chronicles of the conquerors to realism and naturalism. Survey of the principal figures and philosophies of modern literature of Puerto Rico. Prerequisite for second semester only: A reading knowledge of Spanish or permission of the instructor. Each 3 hours, 3 credits.
LITERATURE—HISTORY—BLACK AND PUERTO RICAN STUDIES

210. Race and the Urban Situation
The effects of ethnicity and racism on personal and intergroup communications in the urban setting. The origins of prejudice and its effects upon society's attitudes. Building an increased awareness of the student's own attitudes toward race is a goal of the course. Included are readings in American history, literature, and sociology. 3 hours, plus conferences, 3 credits. Lorde.

213. African-American Culture
African and American cultural backgrounds serve as the foundation for an exploration of the culture of the Black man in the United States. Literature, music, art, drama, and dance are explored and their significance and relationship to the various movements are analyzed. The lifestyles of the Black communities are examined with focus upon residual problems which a racist society creates and perpetuates. 3 hours, 3 credits.

320. Religion, Colonialism and Liberation in Puerto Rico
An examination of the role of Christianity in the course of the Spanish and North American occupations of Puerto Rico. The phenomenon of colonialism with particular emphasis on its shaping of the national identity of the Puerto Rican. 3 hours, 3 credits. Bardequex.

322. Literature of the African Revolution
Writings by sociopolitical thinkers such as Edward Wilmot, Blyden, Nkrumah, Senghor, Nyerere, and Padmore. Okot p'Bitek, Chinua Achebe, Alex LaGuma, Wole Soyinka, and James Ngugi and Franz Fanon are included. Essays, stories, plays, poems, and novels. Prerequisites: English 101-102, Speech 111—unless exemption is granted—and one other course in literature or permission of the instructor. 3 hours, 3 credits. Kinyatti.

335. Theory and Ideology of Black Revolution
An in-depth study of the men and ideas most important in the shaping of the Black America of today. Emphasis on twentieth-century development. Key figures include Frederick Douglass, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Eldridge Cleaver. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Jones.

DIVISION OF GOVERNMENT, HISTORY AND ECONOMICS

Chairman: Nesta M. Galles
Professors: John M. Cammett, Nesta M. Galles, Trumbull Higgins, Lawrence J. Kaplan, Donald H. Riddle
Associate Professors: Lorraine Colville, Daniel Gasman, Ann J. Lane, Harriet Pollack, Isidore Silver
Assistant Professors: Blanche W. Cook, Alfred J. Di Maio, James P. Gifford, Margaret Goodman, Dorothy Guyot, Marc Holzer, James R. Jacob, Jae T. Kim, Frederick A. Lazin, David S. Levin, Gavin Lewis, Marian A. Low,
GERALD E. MARKOWITZ, GERALD MCBETH, JOSEPH V. O'BRIEN, MARC J. ROSENBLUM, ISRAEL ROSENFIELD, MARTIN SCHIFF, PETRA I. SHATTUCK, DENNIS M. SHERMAN, ELIAS B. SILVERMAN, EZRA N. SULEIMAN, ROBERT R. SULLIVAN, MICHAEL WALLACE

INSTRUCTORS: ELI FABER, BRUCE F. GRUBE, JOAN HOFFMAN, LINDA MOODY, GEORGE W. PHILLIPS

LECTURER: HOWARD L. UMANSKY

ADJUNCT PROFESSORS: SEBASTIAN DE GRAZIA, DAVID LEVITAN

ADJUNCT ASSISTANT PROFESSOR: THEODORE NORMAN

ADJUNCT LECTURER: JAMES MUTAMBIRWA

Many course numbers have been changed since the 1971-72 Bulletin. Old numbers appear in parentheses after course titles.

ECONOMICS

101. Principles of Economics
Introductory course on the American economic system: the roles of production, distribution, consumption, product and factor price determination under varying market conditions; the relationships among labor, business, government; analysis of the banking system, monetary and fiscal policy, business fluctuations, public finance and taxation, and international trade. 3 hours, 3 credits. Staff.

207. Evolution of Economic Thought (305)
Evolution of economic doctrines, with reference to price formation, distribution of wealth and income, population, and international trade. Purpose of the course is to help students to acquire a better understanding of modern economic thought through the study of historical materials. 3 hours, 3 credits. Staff.

210. American Economic Development (208)
Study of the evolution of the American economy from colonial times to the present. Changes in the structure of the economy as related to organized economic groups and their impact on economic as well as political institutions. A review of the role of government in economic activity. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Staff.

214. Economics of Underdeveloped Countries (303)
Characteristics and economic problems of countries in Africa, Asia, and Latin America. Resource allocation under differing forms of social and economic organization. A comparison with developed economies and an examination of the prospects for economic growth. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Staff.

215. Economic Geography of the United States (302)
Resources and industries of the United States. Concepts of regionalism; regional economic planning; spatial differences in resources and population distribution; utilization and conservation of energy, mineral resources, and
agricultural products; industrial location in theory and practice; analysis of depressed areas; resource planning; the transportation system and market structure. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Staff.

230. Principles of Public Finance (301)
Analysis of government expenditure, revenues, and borrowing at the federal, state, and local levels. Principles of taxation; government budgeting and accounting; intergovernmental fiscal relations. The economic implications of government financial activities. Fiscal policy in relation to economic stability and growth. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Staff.

280. Economics of Labor (201)
Problems and issues in labor economics: wages, hours, and working conditions; trade unionism in the United States; interrelationship of wages, productivity, and employment; labor in relation to business, government, and economic change; economics of social insurance; collective bargaining and techniques of arbitration; current conditions. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Rosenblum.

290. Consumer Economics (205)
Impact of the social sciences on the consumer. Consumer behavior. The role of the consumer in the American economy; purchasing power and preferences for goods and services; introduction to personal finance; legal position of the consumer. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Kaplan.

292. Urban Economics (202)
The nature of cities and patterns of urban growth and development. Analysis of theories of urban growth and structure; problems and approaches to labor market; housing, transportation, and other social and private services and their fiscal implications. Attitudes and techniques of urban planning and organization; relations between center city and suburbs, and shifts in economic activity and their implications for minority group relations in America. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Hoffman.

293. Environmental Economics
Relationship between environmental quality, economics, and resources. Application of economic theory to the efficient allocation of various resources. The economic and institutional factors affecting land, water, and air; elements of conservation, recreation, water and watershed management. The relationship of ecological principles to local, state, and federal conservation programs. Prerequisite: Economics 101 or permission of the instructor. 3 hours, 3 credits. Hoffman.
490. Seminar: The Economy of the New York Area (401)
The megalopolis in the United States. The theory of regional development; the structure of the modern city; resources and migration affecting the New York area; population, land use, and transportation; patterns of employment, location of industries, and trade relations. Prerequisites: Economics 101, plus other courses in social or behavioral sciences. 3 hours, 3 credits. Kaplan.

GOVERNMENT

101. American Government and Democracy
A study of American government—its institutions and processes and political power with an emphasis on how the system works, who benefits and who does not, and to what extent is it democratic? 3 hours, 3 credits. Staff.

102. Introduction to Political Ideas
A conceptual approach to understanding politics and political relationships. The interpretation of political problems and viewpoints from a variety of perspectives. An alternative for Government 101 with divisional permission. 3 hours, 3 credits. Staff.
201. Government and Administration of New York City
Analysis of New York City government and administration, including city-state relations, the Office of the Mayor, the Board of Estimate, the City Council, and the departments. Municipal civil service, taxation, and budgeting. Metropolitan planning. Consideration of the most recent reports and proposals concerning the city and the metropolitan region. Prerequisite: Government 101. 3 hours, 3 credits. Colville.

203. Municipal and State Government (103)
Functional study of the legislative and administrative process in state and local government. The increasing importance of administration and the executive in modern government. The relationship between administration and the legislative and judicial branches of the government. The influence of political parties, pressure groups, and public opinion upon legislation and administration. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Colville, Silverman.

206. Urban Politics
Study of institutions and political behavior as related to the urban environment with particular emphasis on new and emerging urban interest groups, changing political structures, leadership problems in urban areas, and urban policy problems. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Lazin.

214. Political Parties and Pressure Groups (204)
Analysis of the relationship between interest groups and political parties in the American political system. Theories of elitism, pluralism, and democracy with respect to party structure and organization. The role of issues and ideology in the electoral process. Political parties and lobbying and their effect on governmental institutions. Political leadership and the making of public opinion. The role of money in politics. Comparison with foreign political party and pressure group systems. 3 hours, 3 credits. Staff.

215. The Legislative Process (205)
The functions of Congress and the state legislatures: bases of representation, organization and procedures, relationships to other branches of government. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Colville, Silverman.

220. The American Presidency (308)
Historical and legal evolution of the office of the Presidency. Formal powers of the Presidency. The role of the President as commander-in-chief, party leader, chief legislator, executive, and public spokesman. Sources of Congressional-Presidential conflict, selection of the President, the expansion of the Presidency in the twentieth century. A comparison with the Presidential office in other major nations. Prerequisite: Government 101 or permission of the instructor. 30 hours plus conferences, 3 credits. Staff.
230. The Supreme Court in the American System (304)
Analysis of the constitutional framework of the American governmental system. Origin and development of the United States Constitution and the judicial branch of government. Relationship between the judiciary and the ideals and institutions of American government and politics: federalism, separation of powers, the Bill of Rights. Major attention is given to the work of the Supreme Court and its decisions. 30 hours plus conferences, 3 credits. Pollack, Silver.

240. Public Administration (301)
Introductory course treating the concepts and relationships involved in the execution of public policy. The relationship of the administrative process to clientele groups, the public, legislative bodies, the executive, and the courts. Theory and description of administrative organization. Review of the salient features of recent reports on reorganization. Fiscal administration, personnel management, and management improvements. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Staff.

251. Comparative Politics of Latin America (305)
Interdisciplinary study of Latin American political, economic, and social institutions. Emphasis on the problems and potentials of these societies as they relate to an international community dominated by highly technocratic nations. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Goodman.

252. Comparative Politics of Asia (305)
Comparison of how different Asian political systems handle the similar problems and situations confronting underdeveloped countries: promoting national unity, stimulating economic growth, and making government responsive to popular needs. Case studies include a communist state, a democracy, and a military dictatorship. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Guyot.

253. Comparative Politics of the Middle East and North Africa (305)
Survey of modernization in the region, focusing on the forces that are accelerating modernization, and the forces that have hindered modernization. Study of conflicts within the region; within each state between ethnic groups and social classes; between states, especially between Israel and the Arabs; and among world powers, especially the U.S. and the U.S.S.R. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Staff.

255. Government and Politics of the Soviet Union (306)
A discussion of models for studying the Soviet political and social system; the ideology of Marxism-Leninism; the role of the revolutionary party; the development of Stalinism, and the Khrushchev and post-Khrushchev innovations. Problems of the economy, nationalities, law and the legal system, youth, literary politics, as well as the question of dissent and control, are considered. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Di Maio.
257. Comparative Politics of Western Europe (306)
The political processes and institutions of Western Europe. Political parties, legislatures, pressure groups, student politics, problems of centralization and decentralization, ideology, political stability, and social equality. Emphasis on social and political problems. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Suileiman.

261. U.S. Foreign Policy (309)
Analytical survey of U.S. foreign policy since World War II. An examination of underlying concepts of foreign policy, such as national interest and American ideals and the policy-making process, including the relationship of foreign policy to domestic politics. Historical problems such as the origin of the cold war and military aspects of diplomacy, and the development of strategic nuclear doctrine. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Guyot, R. Sullivan.

262. International Politics in the Third World (310)
Economic, diplomatic and military pressures on the newly independent states of Asia, Africa and Latin America; their reaction to the competition between the U.S. and Russia for influence among them. Case studies of crises such as Vietnam, the Congo, Lebanon and Jordan, the Dominican Republic. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Guyot.

270. Political Theory (307)
Analysis of political thought throughout history with particular attention to such values as liberty, democracy, equality, security, stability, law. Comparison of traditional and contemporary political theories in terms of priorities of values and political culture. Systematic examination of underlying assumptions and logical coherence of normative political thought. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Staff.

271. American Political Thought (207)
The origin and growth of American political ideas examined against the background of American governmental and political systems. Survey of American political and social movements and of the thinkers whose ideas most influenced them. An examination of federalism, sectionalism, abolitionism, social Darwinism, progressivism, socialism, the New Deal, the new conservatism, and the New Left. Prerequisite: Government 101 or History 201-202, or permission of the instructor. 3 hours, 3 credits. Schiff.

Gov/His. 273. Comparative Revolutions
Political science theories of revolutions in relation to such cases as: the revolutions in Cuba, Algeria, Vietnam, China, Ireland, and France; the counterrevolution in Fascist Italy; and the possibilities of either a revolution or counterrevolution in America in the 1980s. Prerequisite: Government 101 or History 101 or 102. 3 hours, 3 credits. Guyot, Moody.
278. Political Sociology
Analysis of the relationships of socio-psychological factors to political phenomena. An examination of man in political society, and political society in man. Emphasis on the interdisciplinary study of power, authority, elites, political and social change, political violence, social inequality, technology, ideology, and political socialization. Prerequisite: Government 101 or Sociology 101. 3 hours, 3 credits. Greenbaum, Grube.

290. Selected Topics in Government (490)
Specific study of a topic chosen by the instructor and students. Prerequisites: Government 101 and permission of the instructor. 3 hours, 3 credits. Staff.

340. Planning (303)
Planning as an administrative tool. Prerequisite: Government 240. 3 hours, 3 credits. Staff.

343. Budgeting
Examination of the managerial and political aspects of budgetary cycles and processes in the public sector. Budget planning, preparation, presentation, authorization, administration and control; alternative and innovative approaches to public budgeting; budgetary roles and role relationships. Prerequisite: Government 301. Silverman.

360. Court Administration
Study of court management from an institutional, behavioral and process perspective. Emphasis on court structure, jurisdiction and inherent power; governmental relations affecting managerial control, judicial concerns and constraints on management; the allocation and utilization of court manpower and other resources; and the role of the court executive. Prerequisite: Law 206. Gallas.

390. Honors Tutorial
The student will submit a term project of reading and research for approval by the instructor. A paper and periodic conferences are required. Special arrangements may be made to do this work over the summer. Open to juniors and seniors with a B average. Replaces Honors Reading 501 for Government majors; open to others with the approval of the Committee on Course and Standing. 3 credits. Staff.

401. Tutorial/Colloquium for Majors
A tutorial or colloquium centered on a broad topic picked for the term's work. An upper-level seminar or this tutorial/colloquium is required of all Government majors. 2 hours, 3 credits. Staff.

402-403. Seminar and Internship in New York City Government (321)
Students work for a city agency or political figure for at least 8 hours a week and meet once a week in a seminar to discuss the politics and policy-making of New York City government. The seminar will meet once a month at the City University Graduate Center with students in similar programs at other
senior colleges in the University to attend symposia offered by New York City officials or political figures and to participate in subsequent discussion. Placement in city agencies is arranged by the instructor in consultation with the individual student. A student employed currently by a city agency may satisfy his internship requirement through such employment. A Work-Study student may fulfill all or part of his work requirement through his internship. Some additional financial assistance is available. A previous course in government is desirable. 2 semester course, 6 credits. Gifford, Silverman.

411-412. Internship and Problem Workshop
Field workshop in community organization with seminar on problems related to fund raising, public relations, the media, and community relations: finding leaders; setting up meetings; preparing agendas; working with other groups and with the media; group and individual fund raising; governmental and foundation appeals; methods of soliciting; role of professional and lay leaders. The course meets once a week. In addition, each student is required to do 4 hours of field work with a private or public agency. 2 semester course, 6 credits.

430. Problems in Civil Rights and Civil Liberties (403)
Seminar in selected issues raised by recent developments in this field against the background of American law and political thought. Prerequisite: Government 101 or permission of the instructor. 3 hours, 3 credits. Pollack.

435. Seminar in Politics and Justice
The relationship between politics and justice. Questions about the efficacy and morality of the “use of judicial proceedings for political ends” within a liberal-constitutional framework are raised. Prerequisites: Government 101 and 230 or 207. 3 hours, 3 credits. Shattuck.

440. Problems of Administration (401)
Seminar on selected problems in public administration. Prerequisite: Government 240 or permission of the instructor. 3 hours, 3 credits. Staff.

441. Problems in Fire Engineering and Administration (410)
An analysis of major fire science problems from the point of view of the administrative and line officer who seeks the integration of scientific knowledge with practical fire science experience in the various areas of professional fire administration. Prerequisites: Government 101, 240. 3 hours, 3 credits. Staff.

HISTORY

101-102. History of Western Civilization
Main themes in history from ancient times to the present. Generally the emphasis is on European history, though at times various instructors may expand treatment to other areas of the world. It is recommended but not necessary that the courses be taken in sequence.
HISTORY

101. From Ancient Times to 1789
Emphasis customarily on the civilizations of Greece and Rome, the European Middle Ages, the Renaissance and Reformation, the Scientific Revolution, and the Enlightenment. 3 hours, 3 credits.

102. From 1789 to the Present
Emphasis customarily on the French Revolution, the Industrial Revolution, Nationalism, Imperialism, and World Wars I and II. 3 hours, 3 credits.

201-202. American Civilization
A history of the United States. Several problems or issues are chosen each term and the insights of various disciplines—political science, sociology, literary criticism, economics, etc.—are brought to bear on them. Either term may be taken separately.

201. From Colonial Times through the Civil War. 3 hours, 3 credits.

202. From 1865 to the Present. 3 hours, 3 credits.

204. The American Revolution
Study of the economic, ideological, political, and psychological causes of the American Revolution. Review of the colonial setting and the history of imperial relations. Focus is on the period 1763-1776 and the emergence of nationalism and republican ideology. 3 hours, 3 credits. Wallace.

207. America and the Great Depression
The impact of the Great Depression upon American society—in politics, economics, social values, and in formal and popular culture—in an effort to examine whether it was a New or an Old Deal. 3 hours, 3 credits. Lane, Levin.

214. Immigration and Ethnicity in the United States (314)
Analysis of ethnic immigrant institutions and anti-immigrant attitudes. Immigrant contributions to industrialization and working-class culture in the United States. 3 hours, 3 credits. Staff.

215. American Reform and Radical Movements 1877-1970 (310)
Analysis of major political and social movements that have attempted to modify or reconstruct American society. Focus is on the Populist and Progressive movements, the growth of socialism from 1900-1920 and of communism between 1920-1940. Examination of the relationship and differences between Black nationalist and integrationist movements of the early twentieth century. The civil rights movement, the Black power revolt, and other recent manifestations of the Black struggle; the growth of the New Left. Prerequisite: History 201. 3 hours, 3 credits. Markowitz.

216. Social History of Industrial America (311)
The social consequences of industrialization in America between 1840 and 1940. Investigation of selected topics: transition to the factory system, the formation of the labor movement and the creation of the American working
class, the Gilded Age, the Roaring Twenties, social changes such as Americanization and Prohibition, the emergence of mass education, mass leisure, and the mass media. Prerequisite: History 201. 3 hours, 3 credits. Staff.

219. Violence and Social Change in America (319)
Examination of the role played by violence in American life. Exploration of selected problems relating to the politics of war, poverty, and racism. Prerequisites: History 101-102. 3 hours, 3 credits. Cook, Wallace.

221. Sex and the Family in American History
Examination of American sexual behavior from the Puritan family to the "sexual revolution." Topics include sex, the family, and society in colonial and ante-bellum America; the repressed sexuality of the late nineteenth century; the rise of divorce; the impact of Freud; the birth control movement; the depression, post-war America and the "sexual revolution"; the social implications of Kinsey and Masters and Johnson. Prerequisites: History 201-202. (Strongly recommended: 6 credits of psychology.) 3 hours, 3 credits. Umansky.

225. American Problems of Peace, War, and Imperialism,
1840 to the Present
Examination of the conflict in America’s foreign policy between manifest destiny and the antimilitarist tradition. Focus on the ideas and processes which led to war and the expansion of America’s empire, and on those ideas and movements which were anti-imperialist and anti-militarist. Prerequisites: History 101 and 102. 3 hours, 3 credits. Cook, Markowitz.

227. American Constitutional History 1787-1865 (307)
Analysis of the social and economic forces which shaped American constitutional developments through the early nineteenth century. The role of the Supreme Court as a political institution and the fulcrum of American national debate and ideology. Early American attitudes toward nationalism, federalism, slavery, and economic expansion considered through Supreme Court decisions. The political setting of the Dred Scott decision and its effect upon the coming of the Civil War is scrutinized. 3 hours, 3 credits. Pollack, Silver.

228. American Constitutional History 1865-1968 (308)
Analysis of the role of the Supreme Court as contributor to, and ideological justifier of, nascent American capitalism. The development of doctrines such as freedom of contract and substantive due process to justify laissez-faire government is stressed. The post-1938 Supreme Court of Franklin D. Roosevelt and its successor courts are analyzed in terms of a growing constitutional emphasis upon liberties of the individual and a decreased emphasis upon private economic and property rights. 3 hours, 3 credits. Pollack, Silver.
229. Slavery and Racism in the United States
A study of white concepts of, and attitudes toward, Black people with a major focus on the institutional arrangements shaped by racist ideology, particularly slavery. An analysis of racism in America since 1865 with a view to assessing the impact of slavery in the decades since emancipation. 3 hours, 3 credits. *Lane.*

233. Medieval Civilization (325)
The growth of Latin Christendom from the eleventh through the fourteenth centuries with an emphasis on the unique culture and institutions of the Middle Ages. Analysis of feudalism, manorialism, medieval monarchy, church history, and the origins of the national state from the Gregorian Revolution to the Renaissance. 3 hours, 3 credits. *Jacob.*

234. History of the Renaissance and Reformation 1300-1648 (326)
Examination of the economic and social origins of the Renaissance and Reformation and the impact of ideas on institutions during the period. Topics include philosophy and civic life in the Renaissance, and magic and the origins of modern science. Figures considered include Dante, Petrarch, Machiavelli, Leonardo da Vinci, Erasmus, More, Luther, Calvin, Loyola, Rabelais, Montaigne, and Bodin. 3 hours, 3 credits. *Jacob.*

235. Early Modern Europe 1500-1789 (327)
The origins of the modern state, philosophy, science and technology. Topics include war and society, monarchical resurgence and the new economy, social change and revolution in England, the crisis of the seventeenth century, science and public policy, empire and slavery, the old regime and the enlightenment. 3 hours, 3 credits. *Jacob, Lewis.*

236-237. Modern European History (301-302)
Main problems of world history from the French Revolution in 1789 to the present. Topics vary according to the instructor, but usually the French Revolution, the Industrial Revolution, nationalism, imperialism, war in the twentieth century, and totalitarianism are emphasized. Whenever possible, the comparative approach is used and the method is topical and analytical rather than narrative. *Gasman, Sherman, Higgins.*

236. From 1789 to 1914. 3 hours, 3 credits.

237. From 1914 to the Present. 3 hours, 3 credits.

241. Modern British History (330)
Survey of the growth and decline of the British Empire with emphasis on international and external political and diplomatic history and the influence of Britain upon continental European, Third World, and American developments. Prerequisite: History 101. 3 hours, 3 credits. *Higgins.*

245. Russian History (305)
The economic, social, and political development of Russia from the era of Russian feudalism through the emergence of the Muscovite autocracy and
250. Asian History (316)
Development of modern Asia, especially China, from the seventeenth century to the present with emphasis on the influence of the West on Chinese and Japanese culture and institutions. The growth of Chinese nationalism, revolution, and the struggle for centralization. The emergence of China as a world power and communist state is stressed. Prerequisite: History 101. 3 hours, 3 credits. Staff.

261. Revolution and Social Change in Contemporary Latin America
Analysis of political and socio-economic development, emphasizing major approaches to social change in the twentieth century. Topics covered are class structures, demographic patterns, economic dependence; democratic liberal reform; neoimperialism; the Mexican revolution; the Cuban revolution; and new trends of the last decade. A comparative, inter-American perspective, drawing on other relevant disciplines, is used. 3 credits, 3 hours. Moody.

272. Intellectual History of Modern Europe, 1789 to the Present
The relationships between the history of ideas and political, social, and economic change. Topics include classical liberalism, romanticism, Marxism, Darwinism, positivism, Soviet Communism, and German and Italian Fascism as well as psychoanalytic theories and existentialism. Prerequisites: History 101-102. 3 hours, 3 credits. Gasman, Rosenfield.

Gov/Hist 273. Comparative Revolutions
Political science theories of revolutions in relation to the revolutions in Cuba, Algeria, Vietnam, China, Ireland, and France; the counterrevolution in Fascist Italy; and the possibilities of either a revolution or counterrevolution in America in the 1980s. Prerequisite: Government 101 or History 101 or 102. 3 hours, 3 credits. Abrahamlam, Guyot, Moody.

290. Selected Topics in History (490)
Specific study of a topic chosen by the instructor and students. Prerequisites: History 101 and permission of the instructor. 3 hours, 3 credits. Staff.

390. Honors Reading
Submission of a project of reading and research for approval by the instructor. A paper and periodic conferences are required. Special arrangements may be made to do this work over the summer. Open to juniors and seniors. Replaces Honors Reading 501 for History majors; open to others with the approval of the Committee on Course and Standing. 3 credits. Staff.

401. Tutorial/Colloquium (For Majors)
A tutorial/colloquium centered on a broad topic picked for the term’s work. An upper-level seminar or this tutorial/colloquium is required of all History majors. 2 hours, 3 credits. Staff.
410. The History of Crime and Punishment in the United States
Ways in which Americans have defined crime, explained its causes, and punished and rehabilitated criminals. The relationships among crime, social values, and social structure. Areas of emphasis include colonial Massachusetts and Virginia; the creation of police forces and prisons during the first half of the nineteenth century; criminality during the Gilded Age and Progressive Period; Prohibition; creation of the FBI; crime and the Great Depression; and some aspects of crime and punishment around 1950-1970. 3 hours, 3 credits. Faber.

430. Modern Military History from the Eighteenth Century to the Present
Emphasis on the United States, Asia, and Europe in modern times including war in Viet Nam, Korea, Cuba, and the Second World War. 3 hours, 3 credits. Higgins.

The following courses are given jointly with the Divisions of English and Black and Puerto Rican Studies.

HISTORY—LITERATURE

220. Women in America
A topical, interdisciplinary examination of the history and status of women in America. Selected topics: archetypes and stereotypes, women's economic role, women in the arts. 3 hours, 3 credits. Staff.

HISTORY—BLACK AND PUERTO RICAN STUDIES

211-212. African-American History I and II
In the first semester, a study of the African background and origins of Black people in the Americas, concentration on the slave trade and on the development of the slave systems in the West Indies and in the United States; emphasis on resistance and abolition movements, the Civil War. In the second semester, the War's end and the Reconstruction Period, the triumph of white supremacy in the 1890s, and the development of the Civil Rights and protest forces in the twentieth century. Each 3 hours, 3 credits. Jones.

227. History of Puerto Rico I
History of the Puerto Rican people is traced from the indigenous cultures that existed prior to 1493 through the Spanish conquest and colonization, the introduction of Africans up to the middle of the nineteenth century—1868—when the Lares revolt occurred. Emphasis on the nineteenth century, the formation of the Puerto Rican nationality, and the variety of political movements. 3 hours, 3 credits.

228. History of Puerto Rico II
From the latter part of the nineteenth century to the present. The last years of Spanish domination and the American invasion of 1898. A study of the political and economic aspects of Puerto Rico under American colonialism, Rise of the Nationalist movement and the Popular Democratic Party. 3 hours, 3 credits.
341. African History
A study of the period from the earliest African civilization to the late nineteenth century. The effect of the great religions, Christianity and Islam, in relationship to the development of the African cultures. The function of language and trade as they contribute to the sociopolitical development of the continent. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Maliwa.

342. Contemporary Africa
An examination of contemporary African social and political thought, with a study of the major movements. The nature and background of Pan-Africanism and the concept of the "Black Diaspora" are explored. Recent African groupings such as the Brazzaville group, the Casablanca powers, the Monrovia states, and the Ghana-Guinea-Mali Union are studied. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Maliwa.

HISTORY—LITERATURE—BLACK AND PUERTO RICAN STUDIES

210. Race and the Urban Situation
The effects of ethnicity and racism on personal and intergroup communications in the urban setting. The origins of prejudice and its effects upon society's agents. Building an increased awareness of the student's own attitudes toward race is a goal of the course. Included are readings in American history, literature, and sociology. 3 hours plus conferences, 3 credits. Lorde.

213. African-American Culture
African ethnic and cultural backgrounds serve as the foundation for an exploration of the culture of the Black man in the United States. Literature, music, art, drama, and dance are explored and their significance and relationship to the various movements are analyzed. The lifestyles of the Black communities are examined with focus upon residual problems which a racist society creates and perpetuates. 3 hours, 3 credits.

320. Religion, Colonialism and Liberation in Puerto Rico
An examination of the role of Christianity in the course of the Spanish and North American occupations of Puerto Rico. The phenomenon of colonialism with particular emphasis on its shaping of the national identity of the Puerto Rican. 3 hours, 3 credits. Bardequez.

322. Literature of the African Revolution
Writings by sociopolitical thinkers such as Edward Wilmot Blyden, Nkrumah, Senghor, Nyerere, and Padmore. Okot p'Bitek, Chinua Achebe, Alex LaGuma, Wole Soyinka, James Ngugi, and Frantz Fanon are included. Essays, stories, plays, poems, and novels. Prerequisites: English 101-102, Speech 111—unless exemption is granted—and one other course in literature or permission of the instructor. 3 hours, 3 credits. Kinyatti.
335. Theory and Ideology of Black Revolution
An in-depth study of the men and ideas most important in the shaping of the Black America of today. Emphasis on twentieth-century development. Key figures include Frederick Douglass, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Eldridge Cleaver. Not open to freshmen except with permission of the instructor. 3 hours, 3 credits. Jones.

DIVISION OF LAW, POLICE SCIENCE AND CRIMINAL JUSTICE ADMINISTRATION

Chairman: John J. Sullivan
Professors: Leo C. Loughrey, Donal E. J. MacNamara, Lloyd M. McCorkle
Associate Professors: John J. Cronin, Milton A. Loewenthal, Thomas A. Repetto, Lloyd Sealy, John J. Sullivan, William J. Wetteroth
Instructors: Edgar D. Lavoie, K. T. Moran, Arthur J. Wallace
Adjunct Associate Professors: Naomi B. Levine, Benjamin Malcolm, Jack A. Mark, Patrick V. Murphy, Matthew J. Neary, Dwight C. Smith, Joseph A. Suarez, Richard H. Ward

CORRECTION ADMINISTRATION

101. Institutional Treatment of the Offender
Introduction to the principles and practices of the treatment accorded to offenders in various types of correctional institutions. The basic organization of a department, including custody, security, and control procedures, and elements of a treatment program. 3 hours, 3 credits. Staff.

201. The Law and Institutional Treatment
The process of law from arrest to release from confinement in its relation to correctional principles and practices. Functions of the police, defense, prosecution, courts, probation, correction, parole. Civil rights of the accused and the convicted. Legal documents relating to commitment, bail, fines, and writs. Prerequisite: Correction Administration 101. 3 hours, 3 credits. Rieber, Wagner.

301. Principles of Correctional Operations
Basic organization and objectives of a department of correction. Specific administrative principles required for the effective conduct and operation of a correctional organization. Relationships among the following institutional units: custodial force, treatment staff, clerical, culinary, and maintenance staff. Prerequisites: Correction Administration 101, Government 301. 3 hours, 3 credits. McCorkle.
302. The Administration of Correctional Programs for Juveniles
Problems, procedures, and policies in the administration of juvenile detention centers, youth houses, and state training schools; the probation service in juvenile courts; halfway houses and after-care supervision; special institutions for defective delinquents and youthful narcotics addicts; the Borstal and "approved school" programs in England. (Field trips to juvenile institutions.) 3 hours, 3 credits. MacNamara.

303. Comparative Correction Systems
Correction systems and methods in selected foreign countries. Prerequisites: Correction Administration 101, Government 301, which may also be taken concurrently. 3 hours, 3 credits. MacNamara.

LAW

202. Law and Evidence
A comprehensive analysis of the rules of evidence. Particular subjects include judicial notice, presumptions, the nature of real and circumstantial evidence, burden of proof, province of court and jury, documentary evidence, hearsay evidence, confessions and admissions, and witnesses. Emphasis on evidence in criminal cases. 3 hours, 3 credits. Sulger, Klein.

203. Constitutional Law
An analysis of the historical development of the relationship of the states to the Bill or Rights. The effect of the due process clause of the Fourteenth Amendment on the application of the Bill of Rights to the States through a study of the leading Supreme Court decisions relating to criminal justice. Prerequisite: Police Science 101. 3 hours, 3 credits. Klein, Loughrey, Sullivan, Weinstein.

204. Criminal Law of New York
A comprehensive analysis of the penal law effective September 1, 1967. Consideration of the impact of the revised statutes on police procedures. Judicial interpretations of the criminal statutes and the application of court decisions prior to September 1, 1967, to the new penal code. Not open for credit to students who have taken Law 201: i.e., Basic Statutory Criminal Law of New York. 3 hours, 3 credits. Klein, Sulger, Olch.

205. Civil Law for Police Officers
A study of those areas of civil law with which a police officer often comes in contact in the course of his duties. Among the areas analyzed are advertising, contracts, shopkeeper-customer disputes, restaurants, auction sales, deposits, refunds, and mechanics' liens. The jurisdiction of the various civil courts, including Small Claims Court, Civil Court, District Court, Supreme Court, and Surrogate's Court. (Open to all students.) 3 hours, 3 credits. Loughrey, Weinstein.

206. The American Judiciary
A study of the nature of the judicial process: precedent and legal reasoning; decision making; the basics of criminal and civil lawsuits; the role of the
lawyer, the judge, and the public; the organization of state and federal courts; the Supreme Court; democracy and judicial review. 3 hours, 3 credits. Shin, Moran.

209. Criminal Law
Examination of the purpose and goals of criminal law, and a study of the historic development of its basic concepts. A study of the criminal law of the federal, state, and local systems. Analysis of typical statutes common to all jurisdictions. Particular attention to the comparison of proposed model codes and the statutes of neighboring states with the penal law of the State of New York. 3 hours, 3 credits. Shin.

211. Civil Disobedience, Urban Violence and Dissent
A study of the constitutional, statutory, and common law as it relates to disobedience and dissent. The role of law and regulatory institutions in reconciling the need for internal order, free expression, and acceptable dissent. An examination of the laws on national security (treason, rebellion, espionage, etc.) and on assembly and picketing. Special attention to violence in urban centers, racial violence, the peace movement and campus disorders. 3 hours, 3 credits. Saaly, Weinstein.

212. The Criminal Process and Code of Criminal Procedures
A study of criminal procedures which examines the process by which criminal law is brought to bear on individuals in society as provided in the New York Criminal Procedure Law. Consideration of current court decisions that affect the application of this code, and the role and responsibility of the police as witnesses. 3 hours, 3 credits. Olch, Weinstein.

Speech 213. The Impact of the News Media on the Administration of Justice
Examination of the role of the media—TV, radio, newspapers and magazines—the judge. The dangers of “Trial by Newspaper,” and of TV in the courtroom. Is impartial justice possible? The British approach. Problems of free speech and press; “contempt by publication” rule: constitutional protections. Suggested guidelines for the media. The psychological basis of audience response. 3 hours, 3 credits. Schreiber, Loughrey.

301. Jurisprudence
Study of the theory and philosophy of law and the relationship between law and society. Special attention to the problem of disobedience, the nature of the judicial process, and issues of law and personal morality. Exploration of current controversies about civil disobedience, the role of the courts, “non-victim” crimes, and the relationship of the police to the rule of law. Prerequisite: Sophomore standing. 3 hours, 3 credits. Loewenthal, Sulger.

309. The Law and Politics of Race Relations
Analysis of sources of racial tension in the United States; the role of courts, legislature, and other governmental institutions; the effectiveness of law against discrimination and economic dimensions of the problem; develop-
department of the civil rights movement; Black Power; riots and lawlessness; the Karner Report; future prospects. Prerequisite: Government 101. 3 hours, 3 credits. Sealy, Weinstein.

Law-Phil 310. Ethics and Law
Inquiry into the relationship between morality and law: their organic interrelationship in the natural law tradition; their separation in positivism. The contemporary debate illustrated by the issues of human and civil rights; the enforcement of sexual morality; civil disobedience; and the ethics of law enforcement. (Open only to juniors and seniors.) 3 hours, 3 credits. Golding, Montgomery.

401. Problems of Constitutional Development
An intensive study of selected problems drawn from constitutional law. Analysis and evaluation of the growth of the constitutional relationship between the individual and government at the federal, state, and local levels, with special attention to problems of law enforcement in the United States. Questions relating to search and seizure, interrogation of suspects, public speeches, and mass demonstrations are explored. Prerequisites: 15 credits in the major field, and Law 301 or Law 203. 3 hours, 3 credits. Loewenthal.

POLICE SCIENCE

101. Introduction to Law Enforcement
A survey of law enforcement agencies, their role, history, and development within the field of criminal justice. Limited to students who do not have law enforcement experience. 3 hours, 3 credits. Staff.

201. Police Organization and Administration — Part I
An examination of the historical development and present organization and administration of police departments, and a consideration of the principles of organization best adapted to insure effective service to the community. Evaluation of line, staff, and auxiliary functions; the utilization of planning and analytic units as administrative aids. Prerequisite: Police Science 101 or equivalent experience. 3 hours, 3 credits. Frost, Lavoie, Reppetto.

204. The Patrol Function
Consideration of the various factors which influence the determination of patrol strength, type, and distribution. Existing patrol practices in various police departments of the United States, Europe, and the United Kingdom are compared and evaluated critically. Consideration of the future of patrol and an evaluation of recent theories for increasing efficiency. 3 hours, 3 credits. Sealy, Wallace.

205. The Traffic Control Function
The nature of the traffic control function as a part of the police role. Traffic law enforcement as a chain whose links consist of the legislature, the traffic engineer, the traffic court, the motor vehicle bureau and the police. Survey
of the functions and roles played by the respective agencies. Emphasis on the
techniques of modern traffic law enforcement. 3 hours, 3 credits. 
*Hair, Kennedy.*

207. The Investigative Function
Introduction to criminal investigation in the field. Consideration of con-
duct at the crime scene, interview and interrogation of witnesses and
suspects, the use of informants, and the techniques of surveillance. Emphasis
on the special techniques employed in particular kinds of investigation and
the presentation of the police cases in court. 3 hours, 3 credits. *Cronin.*

290. Seminar in Security Problems
An analysis of the major problems of security, including college campuses,
hospitals, aircraft, industrial plants, industrial piracy, public utilities, and
municipal and state buildings. Emphasis on current security problems and
existing methods of dealing with them effectively. Prerequisite: Completion
of 18 credits in the area of security specialization, or equivalent experience.
3 hours, 3 credits. *Cronin, Hair, Wallace.*

301. Police Organization and Administration — Part II
Police problems at the administrative level. Review of inspection and internal
control devices. Managerial improvement techniques; completed staff work;
records analysis; survey principles; decision making at various levels, and
preparation of administrative procedural and policy guidelines. Prerequisite:
Police Science 201, or equivalent experience. 3 hours, 3 credits. *Lavoie,
Repetto, Wallace.*

302. Police and Community Relations
Factors in human relations as they affect policing and police management.
Prejudice and discrimination and their effects on the police in a changing
society. The history and development of civil rights and civil liberties.
The role of the modern police officer as generated by the balance of
the requirements of peace and order and those of individual rights.
Prerequisites: Government 101, Psychology 101, Sociology 101. 3 hours, 3
credits. *Frost, Melchionne.*

303. Personnel Administration and Supervision
The essentials of personnel management and fundamentals of supervision
and leadership as applied to administration. Consideration of supervisory
problems within a police/security system. Application of labor relations to
effective performance. Topics include discipline, motivation, training, job
classification, salary standards, and promotion. Prerequisites: Government
103 and/or Government 201 are desirable. 3 hours, 3 credits. *Sealy, Wallace.*

304. Methods of Security
Methods and techniques used to prevent and reduce losses due to theft and
casualty. Consideration of the security survey; communication and surveil-
lance systems; control of personnel and visitors; the use, supervision, and
training of security forces; handling civil disturbances in public buildings;
and other emergencies. Prerequisites: Police Science 201 and 203, or equivalent experience. 3 hours, 3 credits. Cronin, Hair.

306. Police Work with Juveniles
The philosophy and methods of police programs for prevention and control of juvenile delinquency and youth crime. Emphasis on specific techniques and a consideration of the issues and problems to be resolved by police. Prerequisite: Sociology 205. (Psychology 205 is strongly recommended.) 3 hours, 3 credits. Staff.

309. Comparative Police Systems
A study of selected police systems in other nations. Prerequisites: Police Science 201 or 301 and Government 305, which may also be taken concurrently. 3 hours, 3 credits. Loughrey, MacNamara, Suiger.

310. Federalism and Law Enforcement
The American federal system as it operates today in the law enforcement field, with emphasis on overlapping jurisdictions, grants-in-aid, the structure and organization of federal law enforcement agencies. Prerequisites: Government 101 and Police Science 201 or 301. 3 hours, 3 credits. Moran, Ward.

313. Survey of Criminalistics
An introduction to the problems and techniques of scientific criminal investigation. Emphasis on the value and assistance of various scientific aids to the police officer, detective, or field investigator. Case illustrations from crime laboratories throughout the nation. Chemistry 101 and 102 or General Science 101 and 102 are desirable background courses. 3 hours, 3 credits. Cronin.

320. (Math 320) Operations Analysis for Public Safety Management
Mathematical analysis and model building of managerial and operational problems of law enforcement, criminal justice, and fire science. Emphasis on problems drawn from field experience. An analysis of student suggested projects. Prerequisites: One year of mathematics, Police Science 201 and 301 or their equivalents. 3 hours, 3 credits. Bohigian, Lavoie.

327. Police Training Programs: Goals, Content and Administration
An examination and evaluation of various police training programs, both historical and current; goals, purposes and course content and teaching techniques of such programs. An examination of their organization, administration, financing, and relationship to police departments, universities, foundations, and city, state and federal agencies. Prerequisite: Police Science 101. 3 hours, 3 credits. Wetteroth.

401. Seminar in Police Problems
An analysis of the major police problems from the viewpoints of both the administrator and the line operations officer. Prerequisite: Completion of 15 credits in the major field. 3 hours, 3 credits. Staff.
405. Organized Crime in America
A seminar on the origins, organization, function, and control of organized crime. Prerequisites: Completion of 15 credits in the major field, including Sociology 203. 3 hours, 3 credits. Smith.

DIVISION OF SCIENCE AND MATHEMATICS

Chairman: Alexander Joseph
Deputy Chairman for Mathematics: Ruth S. Lefkowitz
Assistant to the Chairman for Science: Selman A. Berger
Associate Professors: Haig E. Bohigian, Anthony Magliulo, William J. Stahl
Assistant Professors: Selman A. Berger, Lily E. Christ, Peter De Forest, Nachman N. Eshel, Robert E. Gaensslen, Samuel Graff, Joseph H. Jacobs, Philip A. Kelenson, Melvyn Klein, Carmen M. Mercado, S. Ramanujam, Anne-Marie Sapse, Ram Karan Sharma, Peter Shenkin, Frank E. Siwiec, Morton L. Wolfson
Instructors: Adi R. Billimoria, Robert Davies, Richard E. Esposito, Richard Lefkon, Arthur Schlissel, Premjit Singh (SEEK), Demba Traore (SEEK)
Lecturers: Francine Abrams Eisen, Daniel Leahy
College Laboratory Technicians: Michael Axelrod, Vincent Chiofalo, Philip Langellotti, Jeanne Mondovano, Mary Wong
Adjunct Lecturers: Clarice D. Aderes, Brina Nathanson, Amy Smith, Robert Weinberger
Adjunct College Laboratory Technicians: Edward Cotty, John Sardone, Steven Turk

BIOLOGY

101-102. Human Biology (For Liberal Arts and Non-Science Majors)
An introduction to cellular biology at the molecular level followed by an intensive study of human anatomy and physiology. Emphasis on factors involved in the maintenance of health and the combating of disease. Consideration of man's relationships with his environment. Each 6 hours: 1 hour lecture, 2 hours recitation, 3 hours laboratory, 4 credits. Staff.

103-104. Human Biology (For Science Majors)

CHEMISTRY

101-102. College Chemistry
A basic course in chemistry beginning with modern atomic and molecular theory and progressing through the basic properties and reactions of the elements and the compounds. Introductory organic chemistry. The laboratory stresses semi-micro qualitative inorganic chemical analysis of anions and cations. Each 6 hours: 1 hour lecture, 2 hours recitation, 3 hours laboratory, 4 credits. Staff.
201-202. Organic Chemistry
Introduction to the classes of organic compounds, their nomenclature, and structural studies. Detailed consideration of the major classes of organic compounds including a treatment of the reactions and, in some instances, the preparation and quantitative determinations of the aliphatic, aromatic, alicyclic, and heterocyclic compounds. A close union exists between the laboratory and the lecture. Each 7 hours: 3 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Magliulo.

220. Quantitative Analysis
A balanced treatment of classical and instrumental methods of gravimetric and volumetric analysis, including iodometric and redox titration. 6 hours: 2 hours lecture, 4 hours laboratory, 3 credits. Stahl.

301. Physical Chemistry I
An introductory course in thermodynamics and chemical kinetics, including ideal and real gases, laws of thermodynamics, changes of state, first and second order reactions, reaction rate theory, and catalysis. 6 hours: 3 hours lecture, 1½ hours recitation, 1½ hours laboratory, 3 credits. Sapse.

302. Physical Chemistry II
Introductory quantum chemistry. Schroedinger equation; molecular orbital and valence bond theory; electrical and magnetic properties of matter; theoretical and applied spectroscopy; introductory ligand field theory. 6 hours: 3 hours lecture, 1 hour recitation, 2 hours laboratory, 3 credits. Sapse.
310. Scientific Arson Investigation
An introduction to the problems and techniques of fire investigation. The chemistry of fire and the combustion properties of selected fuels. Emphasis on investigative methods and on the application and assistance of various scientific aids available to the fire investigator. Prerequisites: A one-year college level course in general chemistry and an introductory course in organic chemistry. 3 hours lecture per week, 3 credits. De Forest.

401. Biochemistry
A detailed treatment of the metabolic pathways of carbohydrates, proteins, fats, nucleic acids, pigments, vitamins, and associated enzymes. The biochemical significance of organic and inorganic poisons, barbiturates, alkaloids, amphetamines, and tranquilizers. The lecture is supplemented with laboratory use of instrumentation such as gas chromatography and differential centrifugation. 6 hours: 3 hours recitation, 3 hours laboratory, 4 credits. Gaensslen.

410-411. Instrumental Analysis
Introduction to instrumental analysis of physical evidence. Emphasis on the theory and use of those analytical instruments commonly found in crime laboratories. Laboratory methods include ultraviolet and infrared spectrophotometry, emission spectrography, X-ray diffractometry, thin-layer and gas chromatography, and the use of electronic test equipment for trouble shooting. Prerequisites: 2 years of college chemistry, Chemistry 301 or equivalent, 1 year of physical chemistry. Each 1 hour lecture, 4 hours laboratory per week, 3 credits. Kingston.
420. Nuclear Chemistry Laboratory
A discussion of the theory and principles of radiation. Special emphasis on civilian defense participation, radiation, and radioisotopes in health and research. The role of radiation theory and principles in crime detection, including neutron activation analysis. The laboratory fully complements the lecture material and involves the use of all associated nuclear instrumentation. 6 hours laboratory, 3 credits.

COLLEGE SCIENCE

101. College Science
Atomic structure. The nucleus and isotopes. Chemical bonds, chemistry of non-metals, hydrocarbons, carbohydrates, nutrients, DNA-RNA, photosynthesis. Prerequisite: One semester of mathematics. 6 credits: 2 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Staff.

102. College Science
Cell structure. Animal and human tissues, organs, respiration, circulatory system, digestion, excretion, nutrition, genetics and DNA. Optics. Laws of motion, gravity, conservation of energy, electricity and magnetism. Science of the atomic nucleus. Prerequisite: College Science 101. 6 hours: 2 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Staff.

ENVIRONMENTAL SCIENCE

301. Introduction to Environmental Science
The physical and chemical nature of pollutants and their biological effects upon plants and animals. Prerequisite: 8 credits of laboratory courses in college science, biology, chemistry, or physics. 3 hours, 3 credits. Berger.

302. Legal Aspects of Environmental Protection
A general study of the laws and codes relating to environmental protection, including problems in their enforcement, and their significance to the public and industry. 3 hours, 3 credits.

410. Natural Processes
The role of natural phenomena in the problem of pollution. The distribution of air pollutants as a function of weather conditions and general air currents. Inversions. The dynamics of the distribution of pollutants in water and on land. Biological transfer and concentration of pollutants. Pathways of food pollutants. Prerequisite: Biology 101-102. 3 hours, 3 credits.

411. Chemical Engineering Unit Processes
An introduction to the technical processes which produce polluting wastes discharged into the environment, and to the methods by which man seeks to remove or otherwise neutralize these pollutants. Prerequisites: Chemistry 101-102, Physics 102. 3 hours, 3 credits.
FIRE SCIENCE

320. (Math 320) Operations Analysis for Public Safety Management
Mathematical analysis and model building of managerial and operational problems of law enforcement, criminal justice, and fire science. Emphasis on realistic problems from the field and the analysis of student-suggested projects. Prerequisite: 6 credits of mathematics. 3 hours, 3 credits. Bohigian.

FORENSIC SCIENCE

313.3 (Pol Sci 313) Introduction to the Problems and Techniques of Scientific Criminal Investigation
Emphasis on the value and assistance of various scientific aids to the police officer, detective, or field investigator. Case illustrations drawn from crime laboratories throughout the nation. Prerequisites: Chemistry 101, 102 or General Science 101, 102. 3 hours, 3 credits. Cronin.

315-316. Forensic Science Laboratory
Introduction to laboratory examinations of physical properties for the identification and individualization of materials such as glass, fibers, hair, paint, and soil. Examination of bullets and latent fingerprints. Detection and characterization of dried blood. Identification of dangerous drugs and narcotics. Scientific photography. Prerequisites: 2 years of college chemistry, and 1 year of college physics. Each 1 hour lecture, 8 hours laboratory per week, 3 credits. De Forest, Kingston.

401. Forensic Science Laboratory
Independent laboratory and study (internship). Four month full-time internship in a crime laboratory covering the following functions: document examination, instrumental analysis, chemistry, toxicology, serology, crime scene service, special photography, explosive and incendiary device recovery, trace evidence, comparative microscopy in firearms and tool marks. Arrangements for internships must be completed through the Director of the Forensic Science Program at least 6 months in advance. 480 laboratory hours, 6 credits. Joseph.

MATHEMATICS

103. Elements of Modern Mathematics I
A systematic approach to sets and the algebra of logic. The development of different number bases and various algebraic procedures. This and the following course are designed for students needing a more measured approach to mathematics. 3 hours, no credit.

104. Elements of Modern Mathematics II
The development of the number line as a postulational system. A treatment of different methods of computation and the principles of analytic geometry. Prerequisite: Mathematics 103. 3 hours, 3 credits.

(Math 103-104 is equivalent to Math 105.)
105. Modern Mathematics
A systematic treatment of such topics as sets, the algebra of logic, algebraic operations, and the principles of analytic geometry. The development of the number line as a postulational system, different number bases, methods of computation, and other selected topics. Prerequisite: Intermediate Algebra or the equivalent. 3 hours, 3 credits.

106. Liberal Arts Mathematics
Recommended for students interested in the cultural contributions of mathematics to such fields as the arts, astronomy, history, literature, music, and physics. Prerequisite: Mathematics 105 or the equivalent. 3 hours, 3 credits.

108. Social Science Mathematics
Recommended for students interested in the role of mathematical models in the quantification of the social sciences. Emphasis on mathematical skills and topics basic to the understanding of probability, linear programming, the power index, learning models, statistics, etc. Prerequisite: Mathematics 105 or the equivalent. 3 hours, 3 credits.

110. Forensic Science Mathematics
Recommended for students interested in advanced mathematics, forensic science, or the physical sciences. Topics include college algebra, group theory, and wave analysis. Prerequisite: Mathematics 105 or the equivalent. 3 hours, 3 credits.
201. Calculus I
Introduction to analytic geometry, functions, limits, continuity, derivatives of algebraic functions, applications of the derivative, antidifferentiation, the definite integral. Prerequisites: Mathematics 105 and Mathematics 110 or the equivalent. 3 hours, 3 credits.

202. Calculus II
Applications of the definite integral, differentiation and integration of transcendental functions, the conic sections. Prerequisite: Mathematics 201. 3 hours, 3 credits.

203. Computer Theory and Programming
A study of computer theory and programming including Boolean algebra, elementary computer design, programming mechanics, and computer languages. Prerequisite: 6 credits of mathematics. 3 hours, 3 credits.

205. Probability
Designed to set the foundations for frequency analysis and statistical inference. Topics include probability functions, densities, and distributions. Prerequisite: 6 credits of mathematics. 3 hours, 3 credits.

207. Game Theory
The development of utility theory, game strategies and payoffs, and the solution of two-person, zero-sum games. Application is made to criminal justice, social conflict, and dilemma resolution. Prerequisite: 6 credits of mathematics. 3 hours, 3 credits.

211. Mathematical Methods for Social Science
Introduction to the analysis and treatment of social science problems by means of elementary mathematics. Emphasis on practical problems by developing idealized models and references to social science writings. Prerequisite: Mathematics 108 or the equivalent. 3 hours, 3 credits.

213. Mathematics for Teachers
The development of mathematical concepts for a contemporary program. Topics include sets and operations as applied to whole numbers, number systems, elements of number theory, and the concept of proof. Prerequisite: 6 credits of mathematics. 3 hours, 3 credits.

303. Advanced Calculus I
An analysis of real number systems, continuous functions, functions of several variables, partial differentiations, and power series. Prerequisites: Mathematics 201-202 or the equivalent. 3 hours, 3 credits.

307. Mathematical Statistics
Introduction to the theory and methods of testing hypotheses, with applications to the natural and social sciences; elements of probability theory; power functions; application to problems involving parameters in normal, binomial, Poisson, and other distributions. Prerequisite: Mathematics 201. 3 hours, 3 credits.
310. Linear Algebra
Designed to unify many of the mathematical concepts studied earlier through the development of topics such as matrix algebra, linear transformations, and vector spaces. Prerequisites: Mathematics 201 and 202 or the equivalent. 3 hours, 3 credits.

320. Operations Analysis for Public Safety Management
Mathematical analysis and model building of managerial and operational problems of law enforcement, criminal justice, and fire science. Emphasis on realistic problems from the field and the analysis of student-suggested projects. Prerequisite: 6 credits of mathematics. 3 hours, 3 credits. Bohigian.

321. Operations Analysis of Public Systems
Detailed examination of recent research involving the application of operations research to public systems such as law enforcement, fire science, air traffic control, library research, hospital operations. Opportunity is provided to develop and discuss student projects. Prerequisite: Mathematics 320. 3 hours, 3 credits. Bohigian.

403. Advanced Calculus II
Critical study of the basic concepts of the calculus, functional dependence, uniform convergence. Applications of partial differentiation. Fourier series. Topics chosen from theory of Riemann-Stieljes integration, multiple integrals, vector analysis. 3 hours, 3 credits.

410. Abstract Algebra
Basic properties of groups, rings, ideals and fields. Isomorphisms and homomorphisms. Algebraic number development. Field extensions. 3 hours, 3 credits.

490. Special Topics in Mathematics
Specific study of topics chosen by the instructor and students. 3 hours, 3 credits.

PHYSICS

101. College Physics I (Liberal Arts Physics)
Topics include kinematics, vectors, forces, Newton's law of motion, weight, gravitational field, free fall, nonuniformly accelerated motion, momentum and impulse, kinetic and potential energy, heat and thermodynamics, illumination and photography, reflection of light, refraction. 2 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Leahy, Anderes.

102. College Physics II (Liberal Arts Physics)
Topics covered include electrostatics, electric fields and electric potential, current electricity, magnetic field, electromagnetic induction, the wave-particle duality, photons and matter waves, physics of the atom, nuclear physics. 2 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Leahy, Anderes.
103. University Physics
 Taken concurrently with Calculus 201. Topics include kinematics, vectors, forces, Newton's law of motion, weight, gravitational field, free fall, nonuniformly accelerated motion, momentum and impulse, kinetic and potential energy, heat and thermodynamics, illumination and photometry, reflection of light, refraction. 2 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Leahy.

104. University Physics
 Taken concurrently with Calculus 202. Topics covered include electrostatics, electric fields and electric potential, current electricity, magnetic field, electromagnetic induction, the wave-particle duality, photons and matter waves, physics of the atom, nuclear physics. 2 hours lecture, 1 hour recitation, 3 hours laboratory, 4 credits. Leahy.

SAFETY ENGINEERING

201. Safety Control
 The nature of industrial accidents and accidents in public and private agencies. Development of accident prevention, accident experience in various areas, development in operation of safety agencies, major disaster control, accident control legislation, workman's compensation, accident cost and relationship to production efficiency. 3 hours, 3 credits. Joseph.

DEPARTMENT OF PHYSICAL EDUCATION

Chairman: Daniel Jesmur (Acting)
Instructors: Michael B. Kolsky, Susan Larkin

101. Introduction to Sports
 Presentation of the rules and regulations, objectives, skills and values of sports. Particular attention to sports generally unfamiliar to students in the metropolitan area. Field trips will be taken if possible. 2 hours, 2 credits. Staff.

102. Handball
 Rules, techniques and basic skills. Emphasis on the doubles game and its strategy. This course is for both the beginning and advanced player. 2 hours, 1 credit. Staff.

103. Paddleball
 Rules, techniques and basic skills. Emphasis on the doubles game and its strategy. This course is for both the beginning and advanced player. 2 hours, 1 credit. Staff.
104. Physical Fitness for Women
Body conditioning course for women. Emphasis on general cardiovascular efficiency as well as specific muscular tonality. Discussion of diet and other related problems. 2 hours, 1 credit. Staff.

105. Weight Training and Conditioning
Emphasis on development of cardiovascular fitness, strength, and endurance. Initial testing, self direction and improvement are of primary importance. 2 hours, 1 credit. Staff.

106. Baseball
Advanced skills and techniques of the game. Students registering for this course should have backgrounds in playing and participating in organized programs. 2 hours, 1 credit. Staff.

107. Basketball
Advanced skills and techniques of the game. Students registering for this course should have backgrounds in playing and participating in organized programs. 2 hours, 1 credit. Staff.

108. Beginning Wrestling
Fundamental wrestling skills, different styles, scoring procedures and a basic understanding of intercollegiate (amateur) wrestling. Actual holds and moves taught; the course ends with a tournament. 2 hours, 1 credit. Staff.
111. Beginning Swimming
Introduction to the fundamental swimming skills of floating, gliding, breathing, the flutter kick and the human stroke. Progression to more advanced skills and combined stroking of the front crawl, treading water and standing front dive. Basic water safety discussed. 2 hours, 1 credit. *Staff.*

112. Intermediate Swimming
Designed for students who have the fundamental swimming skills and are able to swim in deep water. Emphasis on form and ease in swimming and on perfecting the front crawl, back crawl, breast stroke, side stroke, surface diving and diving from land. Use of mask, flippers and snorkel. 2 hours, 1 credit. *Staff.*

127. Power Volleyball
The techniques and strategy behind the team play of power volleyball are analyzed. The skills of setting up blocking and spiking are taught. Emphasis on the class playing of the game. 2 hours, 1 credit. *Staff.*

130. Tumbling
Includes tumbling skills, rebound tumbling, and floor exercise. Emphasis on development of beginning through advanced skills and competitive routines. 2 hours, 1 credit. *Staff.*

140. Beginning Judo
A basic course in fundamentals including falls, hold-downs, chokes and throws. An eclectic approach to the elements of sport judo. Prepares students for promotion to Gokkyu. 2 hours, 1 credit. *Staff.*

141. Intermediate Judo
A secondary course in techniques of the Go Kyo No Waza (first and second) preparing students for promotion to Yonkyu. 2 hours, 1 credit. *Staff.*

150. Fundamentals of Tennis
Introduction to basic tennis skills, including how to hold the racquet, the forehand and backhand drive, footwork, the serve and how to score a game. Simple singles game strategy discussed. Intra-class matches if skill level permits. 2 hours, 1 credit. *Staff.*

160. Rhythms
Introduction to dance techniques including a survey of modern, ballroom, folk and square. Covers areas of choreography, rhythm, space, movement and style. 2 hours, 1 credit. *Staff.*

201. Individual Health Problems
Course covers health problems ranging from venereal disease to drug addiction. Guest speakers, field trips and audiovisual aids are used. 2 hours, 2 credits. *Staff.*

211. Red Cross Senior Lifesaving
Water safety course leading to the Red Cross Senior Lifesaving certificate. Prerequisites: Ability to swim 440 yards continuously, do a surface dive and swim 15 feet underwater, perform a standing dive in reasonably good form, and tread water for one minute. 2 hours, 1 credit. *Staff.*