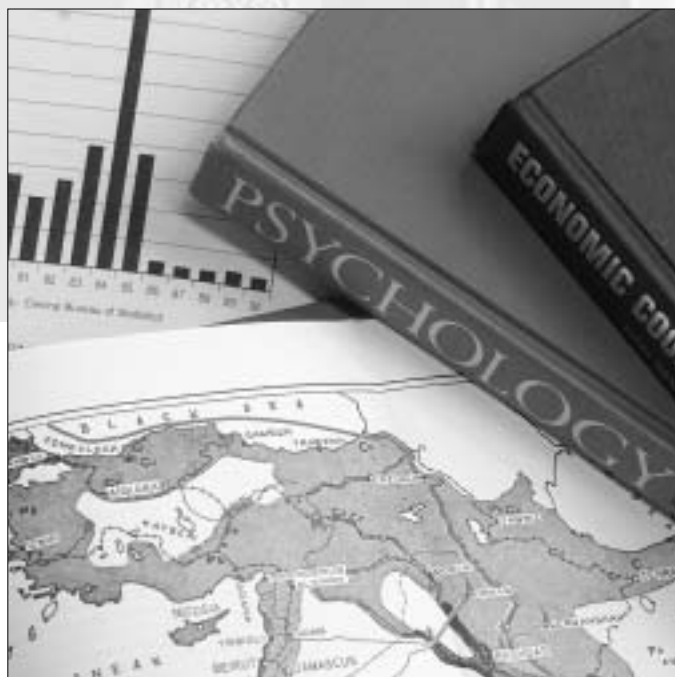


Programs of Study and Course Descriptions



Following is a list of undergraduate courses and programs.

Unless otherwise noted, courses meet for the same number of hours per week as the credit value of the course (e.g., a 3-credit course meets three hours per week).

Each school has minimum residence requirements for majors and minors; see each school's section, as well as sections for individual subjects, for specific information.

The same course may be counted toward two majors, or toward a major and minor, only if it is specified in the catalog as being required for both. An elective course may not count twice.

Disciplines are listed alphabetically. Courses are listed numerically within each discipline and are designated by a four-digit number. If a suffix is used, it has the following meaning:

- A = a modified course given for fewer hours and credits
- B = a modified course given for more hours and credits
- C = a course with combined lecture and laboratory portions, with one grade given for both
- H = honors course
- L = a course consisting solely of laboratory work, or the separately graded laboratory portion of a course
- R = the separately graded lecture portion of a course (Thus, CHE 1045C is identical in content to CHE 1045R and 1045L taken together, but with one grade given for the entire course instead of separate lecture and laboratory grades).
- S = a course in the Division of Jewish Studies dealing with Sephardic history and culture

Course sequences that extend through two successive semesters are differentiated as follows:

1. Separated by a hyphen (e.g., LAT 1101-1102): The first is a pre-requisite for the second, and both must be taken in order to receive credit for either.
2. Separated by a comma (e.g., CHE 1213C, 1214C): The first is a prerequisite for the second, but credit is given for the first course alone.
3. Separated by a semicolon (e.g., ART 1051; 1052): The first and second courses may be taken separately or in any order, and credit is given for each.

Parentheses around the title of a course indicate that the course is not expected to be offered during the period covered by this catalog. Not every course listed in the catalog is offered every semester or at every school. Courses offered during any specific semester and their hours are listed in each school's Schedule of Courses, available at www.yu.edu/schedule. Courses, though listed, are offered only if there is sufficient enrollment.

Updates to course descriptions and requirements can be found online at www.yu.edu/catalog.

ACCOUNTING (ACC)

CPA PROGRAM

Bachelor of Science/Master of Science

Major: Sy Syms School of Business

The graduate accounting major consists of 10 courses totaling 30 credits: ACC 6140, 6367, 6625, 6805; MAN 7721, 7722; TAX 6124, 6125; and two courses selected from the following: ACC 5506, 6135, 6275, 6806; BLW 6614; TAX 6130, and ACC 6970.

The undergraduate accounting major consists of 11 courses from the business core and 9 additional courses, totaling 62 credits: ACC 1001, 1002; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601; and ACC 1101, 1102, 2403, 3201, 3601; TAX 2501 or 6124, 2502 or 6125; BLW 2111, 2112; and ACC 4970.

Minor: Sy Syms School of Business

Five courses chosen from ACC 1101, 1102, 2403, 3201, 3601, 3871; TAX 2501, 2502.

1001 Accounting Principles I. 3 credits.

Introduction to financial accounting: the accounting cycle, statement preparation, accounting for cash and temporary investments, receivables, inventories, and long-lived assets.

1002 Accounting Principles II. 3 credits.

Accounting for current and long-term liabilities, stockholders' equity, intercorporate investments, statement analysis, statement of cash flows. Prerequisite: ACC 1001.

1101 Intermediate Accounting I. 3 credits.

Intensive study of the application of generally accepted accounting principles to selected assets: marketable securities, receivables, inventories, long-lived assets, and intangibles. Prerequisite: ACC 1002.

1102 Intermediate Accounting II. 3 credits.

Continuation of the study of balance sheet items: long-term liabilities including leases, pensions, and stockholders' equity; income tax allocation and principles of income determination. Prerequisite: ACC 1101.

2403 Management Accounting. 3 credits.

Techniques used in decision making for management and financial reporting, product and service

costing systems, overhead allocation, standard costs for control and analysis, cost-volume-profit analysis, short-term decision making, and performance evaluation.

Prerequisite: ACC 1002.

3201 Advanced Accounting. 3 credits.

Accounting for business combinations, foreign operations, segment reporting, and partnerships.

Prerequisites: ACC 1102, ACC 2403.

3601 Principles of Auditing. 4 credits.

Auditing procedures, the nature of evidence in the audit, evaluation of internal control systems, audit sampling, auditing computerized systems, code of professional conduct.

Prerequisites: ACC 1102, ACC 2403.

3851 Financial Statement Analysis. 3 credits.

(Same as FIN 3851).

Designed primarily for non-accounting majors. Methods of communicating information about financing and operating activities of corporations, and techniques for analyzing and evaluating that information.

Prerequisites: ACC 1002, FIN 1001.

3871 Forensic Accounting; Fraud Examination. 3 credits.

(same as MAN 3871).

Covers all major methods employees use to commit fraud, why fraud is committed, how to deter it, and how allegations of fraud should be investigated and resolved.

Prerequisites: ACC 1001, FIN 1001.

Prerequisite or corequisite: ACC 1002.

4970 Senior Research Paper. No credit.

An individualized approach to assisting each student in selecting a topic, designing, and completing the senior research paper required for graduation.

Students work one-on-one with faculty members in their respective disciplines.

Prerequisite: senior status.

5506 Forensic Accounting. 3 credits.

Fraud detection for auditors and business managers. Begins with an understanding of the sociology of white-collar crime and explores investigation techniques in depth. Analysis of fraud-related standards as promulgated by the American Institute of Certified Public Accountants (AICPA), Institute of Internal Auditors (IIA), General Accounting Office (GAO), and the Association of Certified Fraud Examiners (ACFE).

Prerequisites: ACC 3201, ACC 3601.

6135 Advanced Issues in Financial Accounting. 3 credits.

Covers SEC accounting and reporting. Topics include the international framework of securities regulation, raising capital, registration and reporting, accounting and reporting, and liability under securities law; regulation of insiders, small business initiatives, and foreign issues and international offerings.

Prerequisites: ACC 3201, ACC 3601.

6140 Accounting for Government and Nonprofit Organizations. 3 credits.

Introduction to fund accounting (government and nonprofit accounting), budgetary accounting, general and special pre-revenue funds, revenue accounting-government funds, expenditure accounting-government funds, capital budget funds, debt service funds, trust and producing funds, internal service funds, accounting for colleges, universities, and health care organizations.

Prerequisites: ACC 3201, ACC 3601.

6275 International Accounting. 3 credits.

A study of the problems encountered by multinational corporations operating in an international environment. The harmonization of accounting standards is discussed and illustrated through the analysis of differences and unique accounting, auditing, and tax practices in specific countries.

Prerequisites: ACC 3201, ACC 3601.

6367 Advanced Issues in Managerial Accounting. 3 credits.

Examination of advanced and emerging issues in managerial accounting. Topics covered include inventory management, capital budgeting, transfer pricing, and activity-based costing.

Prerequisites: ACC 2403, ACC 3201, ACC 3601.

6625 Impact of Technology on Accounting. 3 credits.

Examines the ways in which computers and emerging technologies affect business. Hands-on exposure to computer-based accounting systems as they impact on accounting and auditing. Student presentation required.

Prerequisites: ACC 3201, ACC 3601.

6805 Ethics in Accounting and Business. 3 credits.

Professional responsibility of the auditor, and other systematic approaches to defining and dealing with business ethics. Examination of the concept of corporate social responsibility from a number of differ-

ent theoretical perspectives. Students present specific issues orally and in writing.

Prerequisites: ACC 3201, ACC 3601.

6806 Financial Statement Analysis. 3 credits.

In-depth interpretation of financial statements for decision makers. Traditional methods of analysis, as well as the impact of accounting conventions, are explored.

Prerequisites: ACC 3201, ACC 3601.

6970 Master's Thesis. No credit.

Requires the student to do original work, exploring in depth a specific area of interest under the supervision of a faculty member. This work would include the review of pertinent literature and, where appropriate, empirical analysis. The goal is for the student to arrive at a conclusion that adds value to the accounting body of knowledge. The student is responsible for writing a paper/thesis in journal-acceptable form.

Prerequisite: last semester of graduate studies.

AMERICAN STUDIES

The American Studies minor offers students the opportunity to examine culture and society in the United States from an interdisciplinary perspective. Students develop an awareness of specific patterns in US history, literature, and politics while compiling a set of analytical skills for synthesizing the broad range of experiences that make up a "culture" or "civilization."

Minor: Yeshiva College

Five courses: one American Literature and Culture core course (English 2911; 2912; 2913), one course in US history, and three additional courses dealing primarily with the United States, selected from the following disciplines: art, economics, English, history, Jewish history, music, political science, sociology, speech and drama.

ARCHITECTURE

Minor: See Art section.

ART

Minor in Studio Art: Yeshiva College

ART 1052A, plus 12 additional studio art credits including at least one advanced course as determined by the humanities advisor in consultation with the individual student, and one 3-credit course in

architectural history or art history. Humanities advisor: Dr. N. Bartholomew (Music).

Minor in Architecture: Yeshiva College

Art 1052A, 1631, and 1633, plus two courses from ART 1630, 1635, or 1639; either a third course in architectural history (from ART 1630, 1635, or 1639), ART 1632, an advanced course in studio art (from ART 2302, 2515, or 2702), or a course in a related field chosen in consultation with the humanities advisor.

1051A; 1052A History of Art. 2 credits.

Introduction to the history of art and architecture of the West. First semester: ancient Egypt, Mesopotamia, Greece, Rome; the early medieval world; the Romanesque and Gothic periods. Second semester: Renaissance through 19th century, with emphasis on style and expression in the work of selected artists.

1630 American Architecture. 3 credits.

Introductory course that compares buildings from various eras and cultures and examines their systems. Covers early colonial settlements to postmodern practices, resulting in a basis for an architectural vocabulary and a greater consciousness of the built environment in the United States.

1631, 1632 Architectural Design. 3 credits.

Introduction to design. Studio exercises in spatial perception and abstract visualization of form, and projects involving drawings and models. Concepts studied include principles of site planning, use of materials, and elementary architectural drafting techniques.

1633 The Language of Architecture. 3 credits.

Introduction to theories of architecture. Discussion of key texts in architecture, methods of perceiving the tactile and sensual qualities of built environments, and a survey of the history of architecture, with emphasis on the modern.

1635 Evolution of the Skyscraper. 3 credits.

The great buildings of New York City in the 19th to 21st centuries, and concepts and styles of urban design and civic planning within social and cultural contexts; field studies.

1639 The Architecture of the Synagogue. 3 credits.

The history of great synagogal architecture, with emphasis on the synagogues of New York City; field studies.

2201A Color and Design. 2 credits.

Elements and principles of visual expression such as line, space, color, and shape, with emphasis on compositional movement. Weekly projects. For beginning and intermediate students.

2202 Advanced Design. 3 credits.

Advanced exploration of two- and three-dimensional design principles. Course structure is similar to 2201A. Prerequisite: ART 2201A.

2301A Principles of Drawing. 2 credits.

Introduction to the materials, skills, and techniques of drawing. The nature and varieties of graphic techniques; drawing disciplines such as perspective, modeling, and foreshortening; exploration of the imaginative and expressive nature of drawing. Projects. For beginning and intermediate students.

2302 Advanced Drawing. 3 credits.

Advanced exploration of graphic techniques and the drawing discipline. Course structure is similar to that of 2301A. This course may be repeated (to a total of four times) for credit. Prerequisite: ART 2301A.

2302A Drawing the Head. 2 credits.

Prerequisite: ART 2301A.

2511 Beginning Painting. 2 credits.

Introduction to painting with oils.

2513 Intermediate Painting. 2 credits.

Intermediate-level problems in color, shape, and space relationships through studio projects with oil paint. Museum trips when possible.

2515, 2516 Advanced Painting. 3 credits.

Advanced projects in studio art, with increased range of personal choice and expression in classroom assignments. Covers technical, formal, and conceptual issues.

2701A, 2702A Sculpture I—Sculpture II. 2 credits.

Concepts of modern sculpture explored through specific hands-on projects involving carving, modeling, constructing, and assembly in mixed media and clay.

2711A Collage. 2 credits.

2901A Printmaking. 2 credits.

Basic techniques of relief and intaglio processes that encourage students to realize visual concepts in printed form.

4901 Independent Study.

4911 Guided Project.

Meet with the Yeshiva College academic dean.

4931 Art in New York. 3 credits.

BIBLE (BIB)

Major: Yeshiva College

Jewish studies majors may concentrate in Bible. See the description of the Jewish studies major.

1015 or 1015H Introduction to the Bible. 2–3 credits.

Authorship and canonization; text transmission; Masoretic text; translations of the Bible; Bible in its ancient Near Eastern context; Jewish Biblical interpretation through the ages. Instruction in Bible is offered at Isaac Breuer College and Yeshiva College. At Yeshiva College BIB 1015 is a prerequisite for all other text courses from the Later Prophets and Hagiographa.

1071 Biblical Midrashim. 2 credits.

Introduction to the Aggadah; literary study of authorship, style, and contents of the major Tannaitic Midrashim; emphasis on their use in Biblical exegesis.

1072 or 1072H Rabbinic Biblical Legal Exegesis. 3 credits.

The methods of legal exegesis of the midreshei halakhah and the Babylonian Talmud, with emphasis on the way in which rabbinic tradition dealt with the problem of providing legally meaningful interpretations of each stylistic nuance of the legal portions of the Pentateuch.

1083 or 1083H Early Jewish Biblical Interpretations. 3 credits.

A survey of the development of Jewish Biblical interpretation from its earliest representation in the late books of the Bible through its various manifestations during the Second Temple and rabbinic periods. Touches upon the major works as well as the significant methods and types of interpretation originating in these periods.

1085; 1086 Topics in Biblical Exegesis I; II. 2 credits.

Selected Pentateuchal texts, examined in light of classical and modern Jewish commentaries, with emphasis on literary and theological analysis. May be repeated for credit with variation of content. Prerequisite: BIB 1015A.

1096 Nahmanides on Pentateuch. 2 credits.

Analysis of the commentary of Moses Nahmanides (Ramban), his method and terminology, and similarities to—and differences from—other exegetes. Prerequisite: BIB 1085A.

1159 Great Biblical Personalities. 3 credits.

In-depth study of major personalities from the Bible and the Prophets.

1187 Man and Society. 3 credits.

Laws governing the society of man (Exodus 20–23; Leviticus 19, 20, 24, 25; Deuteronomy 12–25).

1188 Man and the Divine. 3 credits.

The laws of purity, sacrifice, the Sabbath, and Festivals.

1201, 1202 The Book of Genesis. 3–6 credits.

1213 or 1213H Genesis and Literature. 3 credits.

Topics in Genesis, including creation of man, original sin, Cain and Abel, and the Akeda, studied together with their literary afterlife, including Milton, Unamuno, Augustine, Kierkegaard, and traditional Jewish exegesis and homiletics.

1305; 1306 The Book of Exodus. 2–4 credits.

Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For lower intermediate students.

1407; 1408 Leviticus. 3 credits.

Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators.

1507; 1508 The Book of Numbers. 3 credits.

Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators.

1609; 1610 The Book of Deuteronomy. 3 credits.

Intensive study using classical and modern commentaries. For advanced students.

2107 Early Prophets. 3 credits.

Selections from Joshua, Judges, Samuel, or Kings, with emphasis on historical context and analysis of literary technique and theological concepts.

2109; 2110 Early Prophets. 3 credits.

Selections from the Early Prophets, with classical

commentaries; emphasis on historiographic study and the use of archeological findings. First semester: conquest of Canaan and early Judges; second semester: later Judges and the establishment of the Monarchy. For advanced students.

2117; 2118 Joshua/Judges. 3 credits.
2157–2158 Samuel. 3 credits.
2358–2359 Kings. 3 credits.

2500 through 2879 The Later Prophets. 2–3 credits.
 Texts studied with classical and modern commentaries; literary and theological analysis.

2505 Isaiah.
2555 Jeremiah.
2605 Ezekiel.
2656 Amos and Hosea.
2658 Seven Minor Prophets.
2805 Haggai, Zechariah, Malachi.

3000 through 3999 Hagiographa.
 Texts of the Ketuvim studied with classical and modern commentaries; literary and theological analysis; historical context.

3209 Psalms. 3 credits.
3257 Proverbs. 2-3 credits.
3307 Job. 2-3 credits.
3409; 3410 Five Megillot. 2–3 credits.
3659 Ecclesiastes. 2-3 credits.
3807 Daniel. 3 credits.
3857 Ezra-Nehemiah. 3 credits.

4002 Biblical Narrative. 3 credits.
 Readings in Biblical narratives in light of classical medieval and modern commentaries and modern literary theories.

4021 Biblical Poetry. 2-3 credits.
 Readings in Biblical poetry in light of classical medieval and modern commentaries and modern literary theories.

4136 Biblical Archeology. 2–3 credits.

4138 Bible and Ancient Near East. 2–3 credits.

4520 Targumim. 2-3 credits.
 The Aramaic translations of the Pentateuch and their place in Biblical exegesis.

4901, 4902 Independent Study.
 Meet with the Yeshiva College academic dean.

4950 Bachelor's Thesis. Nine hours.
 3 credits.

Independent work, under faculty guidance, in an area of Biblical study. An acceptable thesis will show diligent research in primary sources, scholarly organization, and clear exposition of material.
 Prerequisite: Bible major or minor, and senior status.

BIOLOGY (BIO)

Major: Yeshiva College

BIO 1011, 1012 (lecture and laboratory) and 18 additional BIO credits, including four advanced laboratory courses (biochemistry may count toward these required biology credits); CHE 1045–1046 (lecture and laboratory); two courses chosen from MAT 1412, MAT 1413, STA 1021. Organic chemistry and physics are strongly recommended.

Minor: Yeshiva College

BIO 1011, 1012 (lecture and laboratory) and 10 additional BIO credits, at least 8 of which must be in advanced laboratory courses. Biochemistry may count toward a biology minor.

1001R, 1002R Essentials of Biology–Lectures. 2 credits.

For non-majors. Takes an integrated approach to the study of biology. First semester: chemico-physical concepts, principles of underlying living systems, cell-structure elements, energetics, and tissue organization; second semester: human anatomy and physiology, human reproduction, and the principles of genetics.
 Corequisite: BIO 1001L, 1002L.

1001L, 1002L Essentials of Biology–Laboratory. 1 credit.

Laboratory work to accompany lectures.
 Laboratory fee.
 Corequisite: BIO 1001R, 1002R.

1011R, 1012R Principles of Biology–Lectures. 3 credits.

Introduction to the study of living organisms, including such areas as the structure and function of living things, ecology, role of plants in nature, energy cycles, reproduction, heredity, and evolution. The human organism, including normal and abnormal structure and function.
 Corequisite: BIO 1011L, 1012L.

1011L, 1012L Principles of Biology–Laboratory. Four hours. 2 credits.
 Laboratory work to accompany lectures. Emphasizes

scientific methods in biological research. Second semester emphasizes animal structure and function.
 Laboratory fee: \$70 per semester.
 Corequisite: BIO 1011R, 1012R.

1376R Biochemistry–Lectures. 3 credits.

1376L Biochemistry–Laboratory. 2 credits.

1405C Research Methods in Biology. Two hours of lecture. Four hours of lab. 4 credits.

Current techniques used in biomedical research. These may include radioisotope, bacteriological, somatic cell, genetic, biochemical, and molecular; use of scientific literature, preparation of research grant proposals, and presentation of experimental results; selected laboratory experiments and library research projects.
 Laboratory fee: \$80.
 Prerequisite: BIO 1012, two additional biology laboratory courses, and permission of the instructor.

1405L Research Methods in Biology. Four hours. 2 credits.

Same as 1405C, but without lecture periods.
 Laboratory fee: \$80 per semester.

2206C Invertebrate Zoology. Two hours of lecture. Four hours of lab. 4 credits.

Survey of the invertebrate phyla (excluding protozoa), with emphasis on functional morphology, life cycles, physiology, and current research problems in invertebrates. Laboratory stresses functional morphology, utilizing living and preserved material.
 Laboratory fee: \$50.
 Prerequisite: BIO 1012.

2255 Advanced Biophysics. 3 credits.

2320C Comparative Anatomy of Vertebrates. Two hours of lecture. Four hours of lab. 4 credits.

The origins, similarities, and differences among vertebrate classes, as well as their changing diversity through time. Emphasis on adaptations leading from the aquatic to the terrestrial lifestyle as seen across this chordate subphylum.
 Laboratory fee.
 Prerequisite: BIO 1012.

2601C Developmental Biology. Two hours of lecture. Four hours of lab. 4 credits.

Events leading to and proceeding from the fertilization of invertebrate and vertebrate eggs; review of classical and modern experiments uncovering the processes leading to the formation of an integrated

organism from a single cell, the zygote.
 Laboratory fee.
 Prerequisite: BIO 1012.

3038C Ecology. Two hours of lecture. Four hours of lab. 4 credits.

Classical ecological approaches in light of recent ecological discoveries. An interdisciplinary approach demonstrating the relationships of geological, climatological, and evolutionary principles to ecology. Laboratory work and field trips accompany lectures.
 Laboratory fee.
 Prerequisite: BIO 1012.

3135C Cell Structure and Function. Two hours of lecture. Four hours of lab. 4 credits.

Structure, organization, and function of tissues; morphological and histochemical study of protoplasm; cell, tissue, and organ structure. Basic laboratory experience in interpretation of cell and organ structures based on light and electron microscopy and histochemistry. Histological techniques.
 Laboratory fee.
 Prerequisites: BIO 1012, CHE 1046.

3207C Cell Biology. Two hours of lecture. Four hours of lab. 4 credits.

Basic architecture of cells, organelles, and components; dynamics of growth, nutrition, cell cycle, metabolism, and metabolic regulation; specialized cell functions. Laboratory accompanies lectures.
 Laboratory fee.
 Prerequisites: BIO 1012, CHE 1046.

3230C or 3230H Immunology. Two hours of lecture. Four hours of lab. 4 credits.

Basic principles, theories, and current problems in immunology. Emphasis on antigens, haptenes, antibodies, antibody specificity, antibody-antigen reactions, and immediate and delayed hypersensitivity, as well as transplant and autoimmune phenomena. The honors version focuses in depth on AIDS and society.
 Laboratory fee.
 Prerequisites: CHE 1214, BIO 3207 or 4023R&L and one other intermediate BIO course or permission of the instructor.

3513C Introductory Genetics. Two hours of lecture. Four hours of lab. 4 credits.

Laws of heredity and variation; theory of the gene and gene action; experiments with *Drosophila*, *Neurospora*, and bacteriophage. Laboratory accompanies lectures.
 Laboratory fee.
 Prerequisite: BIO 1012.

3521C Molecular Biology. Two hours of lecture. Four hours of lab. 4 credits.
Recombinant DNA techniques and applications. Special attention to recently published journal articles. Laboratory accompanies lectures. Laboratory fee.
Prerequisite: BIO 1012.

3728C Animal Physiology. Two hours of lecture. Four hours of lab. 4 credits.
Physicochemical principles involved in life processes. Lecture and laboratory illustrate these principles in the physiological systems of vertebrates. Laboratory fee.
Prerequisite: BIO 1012.

3801R Endocrinology-Lectures. 2 credits.
Structure and function of endocrine glands, including the nature of hormones and molecular modes of action.
Prerequisite: BIO 1012.

3801L Endocrinology-Laboratory. Four hours. 2 credits.
Experiments using modern techniques of endocrinological research, including surgery, isotope techniques, and growth studies.
Laboratory fee.
Prerequisite or corequisite: BIO 3801R.

3830C Introduction to Neurobiology. Two hours of lecture. Four hours of lab. 4 credits.
Nerve cells and their organization into complex nervous systems; major concepts in neurobiology, including impulse conduction, synaptic transmission, sensory processing, motor function, and memory.
Prerequisite: BIO 1012.

3830R Introduction to Neurobiology-Lectures. 2 credits.

4023R Microbiology-Lectures. 2 credits.
Structure, development, identification, control, and use of microorganisms.
Prerequisites: BIO 1012, CHE 1045, CHE 1046.
Recommended: CHE 1213, CHE 1214.

4023L Microbiology-Laboratory. Four hours. 2 credits.
Analytical laboratory procedures and experimental methods of research. Emphasis on interaction of microorganisms with the environment and hereditary transmission of genetic material.
Corequisite: BIO 4023R.

4901, 4902 Independent Study.
Meet with the Yeshiva College academic dean. Laboratory fee on an individual basis.

4930; 4931 Current Topics in Biology. 2 credits.
Seminar in which students make presentations on selected subjects from current developments in the fields of microbiology, endocrinology, animal behavior, embryology, ecology, and environmental studies.
Prerequisites: BIO 1012 (R&L) and permission of the instructor.

4935 Science, Society, and Ethics. 3 credits.

4934 Biological Aspects of Bioethics. 2 credits.
Physiological, ecological, and epidemiological bases of decision making in the field of bioethics; definition of death; DNA recombinant research; pesticide use; demographic concerns; abortion; hazardous surgery; human experimentation; organ transplants; social obligation of the scientist; eugenics and euthanasia.
Prerequisites: BIO 1012 and two additional BIO courses.

4937C or 4937H Advanced Biotechnology. Six hours. 3 credits.
Intensive research laboratory experience in current molecular biology techniques.
Laboratory fee.
Prerequisite: permission of the instructor.

BUSINESS (BUS)

GENERAL BUSINESS

Major: Sy Syms School of Business
Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601; two groups of three courses chosen from ACC, ENT, FIN, INF, MAN, MAR, REA (18 credits) and three business electives chosen from ACC, ENT, FIN, INF, MAN, MAR, REA (9 credits); and one course chosen from ACC/FIN/INF/MAN/MAR 4970.

INTERNATIONAL BUSINESS

Major: Sy Syms School of Business
Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601; and FIN 3015, 3603, MAN 3601, 3730, MAR 3341, 3345 (18 credits); Business electives: three courses chosen from ACC,

ENT, FIN, INF, MAN, MAR, REA (9 credits); and one course chosen from ACC/FIN/INF/MAN/MAR 4970.

Minor: Sy Syms School of Business

Five courses chosen from FIN 3015, 3603, MAN 3601, 3730, MAR 3341, 3345. Recommended: foreign language other than Yiddish.

4741 through 4743 Business Internship. 1–3 credits depending on hours devoted.

Supervised work experience that permits students to apply classroom knowledge. Work assignments must be meaningful and must be approved prior to commencing internship. Each student's supervisor is required to submit a final evaluation report upon completion of internship. A maximum of three internship credits may be applied to the major; 100 hours of internship is equivalent to one credit.
Prerequisite: junior standing in Sy Syms School.

BUSINESS LAW (BLW)

2021 Legal and Ethical Environment of Business. 3 credits.

Substantive law and practical issues as they relate to business; ethics of business and Halakhah as they interface with the law and practical business decisions.

2111 Business Law I. 3 credits.
Introduction to the legal process; contracts, personal property, bailments, sales, commercial property.

2112 Business Law II. 3 credits.
Agency, partnerships, corporations, trusts, estates, credit, secured transactions, bankruptcy.
Prerequisite: BLW 2111.

2951 Real Estate Law. 3 credits.

(Same as MAN/REA 2951.)
Survey of the basic principles of real estate property law for investment, lending, leasing, and development for both residential and commercial transactions. Students become familiar with terminology employed in describing various property interests, and with legal concepts involved in the acquisition, construction, leasing, financing, and sale of real estate property and real estate projects, including alternate forms of ownership, co-ownership, cooperatives, and condominiums. The most commonly encountered liens and encumbrances are reviewed, as well as how they are dealt with in the context of a title search and the recording act. Legal documents used in lending, development, and investment of real estate.
Prerequisite: MAN/REA 2943.

3021 Entrepreneurial Law & Intellectual Property. 3 credits.

(Same as ENT/MAN 3021.)
Choosing, forming, and managing various types of business organizations, including sole proprietorships, joint ventures, franchises, business trusts, general and limited partnerships, LLPs, LLCs, and corporations. Trademark, copyright, patent, and trade secret considerations; labor law and employer-employee relations.
Prerequisite: BLW 2021 or 2111.

6614 International Business Law. 3 credits.

An examination of the special risk of doing business abroad, the legal ramifications of foreign investments, the study of treaties that address international trading, resolution of international disputes, and enforcement of foreign judgments.
Prerequisite: BLW 2112.

BUSINESS & MANAGEMENT

Majors and Minors: Sy Syms School of Business

Students majoring or minoring in the Business & Management program may select one of the following concentrations: entrepreneurship, finance, general business, information systems, international business, management, or marketing. The business core is required for each major concentration.

Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601.

Minor: Yeshiva College

Eighteen credits chosen from ACC 1001, 1002; FIN 1001; INF 1020; MAN 1020; MAR 1001; and two business electives.

CHEMISTRY (CHE)

Major: Yeshiva College

CHE 1045–1046 (lecture and laboratory); CHE 1122; CHE 1213-1214 (lecture and laboratory); CHE 1415-1416; CHE 1937 or 1938; MAT 1412, 1413; PHY 1031, 1032 or 1041, 1042 (lecture and laboratory); and one additional CHE course.

Minor: Yeshiva College

CHE 1045-1046 (lecture and laboratory); CHE 1122 or 1415; CHE 1213-1214 (lecture and laboratory); and one additional CHE course.

1023R Science of Chemistry: Everyday Life-Lectures. 2 credits.

Develops students' understanding of chemistry using Dalton's Atomic Theory as a basis for the application of biotechnology in agriculture, pausing to consider the chemicals encountered in our everyday lives.

Corequisite: CHE 1023L.

1023L Science of Chemistry: Everyday Life-Laboratory. 1 credit.

1024R Science of Chemistry: Global Issues-Lectures. 2 credits.

Examines contemporary environmental issues, such as fossil fuel consumption, global warming and ozone depletion, through both class discussion of assigned readings (text and newspaper articles) and laboratory experimentation.

Corequisite: CHE 1024L.

1024L Science of Chemistry: Global Issues-Laboratory. 1 credit.

1025C or 1025H Man and the Environment. 3 credits.

For non-science majors. Introduction to the basic chemical principles that apply to the science and technology of the environment. Understanding of familiar everyday occurrences based on fundamental concepts developed over centuries by straightforward observation and experimentation. Laboratory exposes students to chemical methods commonly used to analyze components in air, water, and soil; effects of components; and methods used in the removal of components considered pollutants. Not open to students who have had some college chemistry.

1045R, 1046R General Chemistry-Lectures. Four hours. 3 credits.

Fundamental concepts of chemistry on atomic and macroscopic scales. Topics include atomic structure and stoichiometry; properties of gases, liquids and solids; thermochemistry; quantum theory; electronic structure of atoms; the periodic table and periodic properties; chemical bonding; introduction to MO theory; properties of solutions; thermodynamics; chemical equilibria including acid-base and solubility; chemical kinetics; electrochemistry; chemistry of the environment. One of the lecture periods is a recitation.

Corequisite: CHE 1045L, CHE 1046L.

1045L, 1046L General Chemistry-Laboratory. Five hours. 2 credits.

Laboratory experiments are designed and scheduled to complement lecture topics and enhance students' understanding of the principles introduced.

Emphasis on quantitative techniques. Second semester includes semimicro qualitative analysis.

Laboratory fee: \$40 per semester.

Corequisite: CHE 1045R, CHE 1046R.

1045H, 1046H Honors General Chemistry in Context. Four hours of lecture. Five hours of lab. 5 credits.

Topics covered are similar to those in a traditional first-year introductory chemistry course (1045R, 1046R), but include in-depth analysis. Chemical concepts presented in the context of increasingly sophisticated real-world applications. Satisfies the requirements for science majors and pre-medical, pre-dental, and pre-health students. Also serves non-science majors interested in a challenging science course.

1122C Chemical Analysis. Two hours of lecture. Four hours of lab. 4 credits.

Principles and practice in qualitative and quantitative analysis of chemical substances. Techniques include potentiometry and gas and high-performance liquid chromatography; UV-VIS, FT-IR, and spectroscopy; and mass spectrometry, which are applied to the chemical analysis of compounds in chemical and biological systems.

Laboratory fee: \$50.

Prerequisite: CHE 1046R&L.

1213R, 1214R Organic Chemistry-Lectures. Four hours. 3 credits.

Structure, synthesis, properties, and reaction mechanisms of the main classes of organic compounds, including compounds of biological importance.

Prerequisite: CHE 1045-1046R&L.

Corequisite: CHE 1213L-1214L.

1213L, 1214L Organic Chemistry-Laboratory. One hour of lecture. Four hours of lab. 2 credits.

Emphasizes basic techniques in separation, purification, identification, and preparation of organic compounds.

Laboratory fee: \$60 per semester.

Corequisite: CHE 1213R-CHE 1214R.

1233C Synthesis and Characterization of Organic and Inorganic Compounds. One hour of lecture. Five hours of lab. 3 credits.

Advanced preparative techniques; purification and characterization by physical and chemical methods including NMR spectrometry, UV-VIS and FTIR spectrophotometry, gas and high-performance liquid chromatography, and mass spectrometry.

Laboratory fee: \$75.

Prerequisite: CHE 1214.

1376R, 1377R Biochemistry-Lectures. 3 credits.

Structure and function of biological molecules, enzyme kinetics, bioenergetics, metabolism, storage and transmission of genetic information, recombinant DNA technology, and selected topics such as membrane transport, hormone action, and muscle contraction.

Prerequisite: CHE 1214 or permission of the instructor.

1377L Biochemistry-Laboratory. Four hours. 2 credits.

Illustration of the properties of biochemical substances; design and analysis of experiments.

Techniques include chromatography, electrophoresis, differential centrifugation, and various types of enzyme assays, including spectrophotometric and radioactive.

Laboratory fee: \$65.

Prerequisite or corequisite: CHE 1376R.

1378H Chemical Biology. 3 credits.

Considers a variety of biological systems in terms of their molecular components and potential behavior as defined by chemical functional groups, three-dimensional character, likely internal motion, and intermolecular interactions with respect to the aqueous and non-aqueous environments that constitute life.

Prerequisites: CHE 1046R&L, CHE 1214 R&L, BIO 1011 R&L.

1415R, 1416R Physical Chemistry-Lectures. 3 credits.

First semester: thermodynamics, chemical equilibrium, solutions, electrochemistry. Applications to biological and biochemical problems are used to illustrate general principles. Second semester: quantum chemistry; the Schrodinger equation and some simple applications; extension to three-dimensional systems; H-atom; many electron atoms; structure of molecules; introduction to computational methods (molecular mechanics, ab initio methods); molecular spectroscopy; statistical mechanics; kinetic theory; chemical kinetics.

Prerequisites: CHE 1046C, MAT 1413 (or higher).
Pre- or corequisite: PHY 1041-1042 or 1031-1032.

1415L Physical Chemistry-Laboratory. One hour of lecture. Five hours of lab. 3 credits.

Measurements and computations. Experiments illustrate theoretical principles and provide basic experience with quantitative physical measurements, including thermochemistry, chemical equilibria, kinetics, electrochemistry, spectrophotometry, and computer interfacing. Applications to biochemical systems.

Laboratory fee: \$40.

Corequisite: CHE 1415R.

1607 Inorganic and Structural Chemistry. 3 credits.

Chemical structure and bonding, ligand field theory and crystal field theory, coordination compounds, organometallic chemistry, reaction mechanisms, synthesis.

Prerequisites: CHE 1046, MAT 1413.

1609H Bioinorganic Chemistry. 3 credits.

Key inorganic chemistry concepts, including chemical bonding, structure, reactions, and characterization methods, and their applications in biology and medicine. Bioinorganic chemistry is a rapidly expanding, interdisciplinary field. Topics include metalloenzymes, iron transport proteins, biomineralization in bones and shells, and chemotherapeutic agents.

Prerequisite: CHE 1046R&L.

1611 or 1611H Molecular Structure and Dynamics. 3 credits.

Computational tools used to study the three-dimensional shapes of molecules, and how these shapes relate to observed properties. Assignments include reading and discussing primary literature sources, and hands-on projects using the molecular modeling programs.

Prerequisite: CHE 1046 R&L.

1930 Selected Topics. 2 credits.

Seminar in current problems and literature in chemistry, for seniors majoring in chemistry and selected juniors. Assigned topics, regular conferences, and a report.

Prerequisite: permission of the instructor.

1937, 1938 Seminar in Advanced Chemistry. 1 credit.

Seminar meeting two hours every two weeks. Topics in all fields of chemistry.

Prerequisite or corequisite: CHE 1213 or permission of the instructor.

4901 Independent Study.

4911 Guided Project.

Meet with the Yeshiva College academic dean. Laboratory fee on an individual basis.

CLASSICAL LANGUAGES (CLA)

Major: Yeshiva College

Latin, two years (not including 1101–1102); Greek, two years; also such additional courses, not exceeding 15 credits, as may be prescribed by the senior professor of Classics, Dr. Feldman, for the individual student. Cluster advisor: Dr. L. Feldman.

Minor: Yeshiva College

Eighteen credits in Latin or 18 credits in Greek or 24 credits in Latin and Greek.

4405H Ancient Jewish and Pagan Intellectuals on the Bible. 3 credits.

How Jewish intellectuals, notably Philo and Josephus, who were well-versed in Greek literature and philosophy, viewed pagans in general, how they dealt with pagan concepts, and how they viewed the possibility of synthesizing pagan ideas with Judaism.

GREEK (GRE)

1101–1102 Elementary Greek. 3 credits.

Emphasis on understanding Greek literature in the original, with grammar employed only as a means to that end. First semester: systematic survey of the language and reading of simple sentences taken from Greek literature; second semester: continuation of the language survey, with reading of Plato's *Apology* and *Crito*.

1231; 1232 Homer and Drama. 3 credits.

First semester: selections from Homer's *Iliad* or *Odyssey*; second semester: one play of Aeschylus and one of Sophocles. Prerequisite: GRE 1101–1102 or equivalent.

1373 or 1373H Greek Myths and Their Influence. 3 credits.

Introductory survey course. Examines the major Greek myths pertaining to creation, the flood, Prometheus, the Olympian gods and goddesses (notably Athena, Aphrodite, Apollo, Hermes, Dionysus, and Demeter), and the major heroes (notably Heracles and Odysseus). Covers their origins; the cults and festivals connected with them; the light cast upon them by archaeology; the ties

linking the myths to one another; and their versions in Homer, Hesiod, the Greek tragedies, and Ovid's *Metamorphoses*; as well as their modern adaptations in literature. No knowledge of Greek is required.

2201; 2202; 2203; 2204 Advanced Greek. 3 credits.

Content, from among the following, varies with the needs and interests of the class: Hesiod's *Theogony* and *Works and Days*; elegiac, iambic, and lyric poetry (Callinus, Tyrtaeus, Mimnermus, Solon, Xenophanes, Archilochus, Alcaeus, Sappho, Anacreon, Simonides); Pinar's odes; Aristophanes' comedies; Herodotus's *The Persian War* from the *Histories*; Thucydides' *The Peloponnesian War*; Lysias's orations; Demosthenes' orations; Plato's *Republic*; and Aristotle's *The Nicomachean Ethics*. May be taken for two or more successive years. Prerequisite: GRE 1231; 1232 or equivalent.

LATIN (LAT)

1101–1102 Elementary Latin. 3 credits.

First semester: systematic survey of the language and reading of simple sentences taken from Latin literature. Second semester: continuation of the language survey; readings from Nepos, Cicero, Catullus, Horace, Pliny the Younger, Martial, Phaedrus, and in medieval Latin.

1231;1232 Intermediate Latin. 3 credits.

First semester: readings from Cicero's greatest speeches, philosophical works, and letters; various other famous writers, such as the historians Sallust, Livy, Tacitus, and Ammianus Marcellinus; Pliny the Younger's letters; the biographers Nepos and Suetonius; Cato the Elder on agriculture; Celsus on medicine; Seneca's philosophical works; Petronius's satire; Apuleius's *Metamorphoses*; inscriptions; and Ovid's account of mythology. Second semester: selections from the *Aeneid*, with emphasis on its poetic qualities and on Virgil's status and influence. Prerequisite: two years of high school Latin or LAT 1101–1102.

2201; 2202; 2203; 2204 Advanced Latin. 3 credits.

Content, from among the following, varies with the needs and interests of the class: Plautus's and Terence's comedies, Cicero's philosophical works, Lucretius's *On the Nature of Things*, Catullus's poems, Livy's *History of Rome*, Ovid's *Metamorphoses*, Seneca's philosophical works, Martial's epigrams, Petronius's *Satyricon*, Juvenal's satires, Tacitus's historical works, Suetonius's biog-

raphies of the Roman emperors. May be taken for two or more successive years.

Prerequisite: LAT 1231; 1232 or equivalent.

4901; 4902 Independent Study.

Meet with the Yeshiva College academic dean.

COMPUTER SCIENCES (COM)

Major: Yeshiva College

COM 1300, 1320, 1504, 1621, 2113, 2545, 3610 3640, and 6 credits in advanced electives (AE) chosen with the approval of the discipline advisor; MAT 1412, 1413, 2105. Recommended: PHY 1041–1042R&L, 1724. Note also the Computer Track of the Mathematics major.

Minor: Yeshiva College

COM 1300, 1320, 1504, 2545, and 3 additional credits in COM electives approved by the discipline advisor; MAT 1412, 1413. COM 2545 is a prerequisite for all AE (Advanced Electives).

1115C Introduction to Computer Applications and Programming. Three hours of lecture. Two hours of lab. 3 credits.

Windows operating system, basic concepts, and techniques of an office productivity suite; Microsoft OFFICE Professional; fundamentals of problem solving using computers; Visual Basic for Applications as a basis for extending and customizing the basic applications; extending Workgroup computing to the Internet.

1300 Introduction to Computer Science and Programming. Three hours of lecture. Two hours of lab. 4 credits.

Components of a computer system; machine, assembly, and high-level languages; numerical systems and coding; representation of data and instructions; data types, constants, variables; arithmetic expressions; logical expressions; assignment statement; sequencing, alteration, and iteration; arrays, subprograms, and parameters; simple I/O; techniques of problem solving; flowcharting; stepwise refinement; simple numerical examples; basic search and sort algorithms. Principles of good programming style, expression, and documentation; control flow; invariant relation of a loop; stepwise refinement of statements and data structures or top-down programming.

1320 Data Structures. Three hours of lecture. Two hours of lab. 4 credits.

String processing, concatenation, substrings, matching, internal searching and sorting, recursion, linked lists and linear allocation (stacks, queues, deques). Elementary data structures, file structures and algorithms, searching and sorting, trees and algorithms for their manipulation, notions of algorithm complexity, memory and data management systems. Prerequisite: COM 1300; Co-requisite: COM 1504.

1422H Great Proofs in Mathematics. Three hours of lecture-recitation. 3 credits.

Landmark theorems from ancient to modern times. Geometry: Pythagorean theorem, Euler's formula, platonic polyhedra. Number Theory: irrational numbers, infinitude of primes, unique factorization, Pythagorean triples. Set Theory: sets, relations, functions, infinite cardinal numbers, Schroeder-Bernstein theorem. Probability: expectation, conditioning, independence, the law of averages. Theory of computation: Turing machines, decidable and undecidable problems. Prerequisite: Permission of the instructor.

1504 Discrete Structures. Three hours of lecture. Two hours of lab. 4 credits.

Boolean algebra and predicate calculus; proof methods; sets, functions and relations; combinatorics; graph theory and algorithms; mathematical induction and recursion; probability and average case analysis of algorithms. Prerequisite: three years of high school mathematics.

1621 Theory of Computation. 3 credits.

Deterministic and nondeterministic finite state automata; regular grammars and regular expressions; equivalence of regular expressions and finite automata; pumping lemma for regular languages; context-free grammars; languages generated by context-free grammars; parse trees and ambiguity; Chomsky normal form; push-down automata; equivalence of context-free grammars and push-down automata; pumping lemma for context-free languages; Turing machines; Universal Turing machine; Halting problem; solvable and unsolvable problems about automata and languages; Introduction to complexity theory; NP-complete problems. Prerequisite: COM 1504.

2113 Computer Organization and Assembly Language. Three hours of lecture. Two hours of lab. 4 credits.

Basic logic functions. Synthesis of more complex combinational circuits. Electronic implementation of

these functions. Simple synchronous circuits. Major components of a computer. Machine and assembly language instruction set. Implementation of the instruction set electronic circuits. Circuits needed to perform arithmetic operations. Memory and I/O implementation.
Prerequisite: COM 1300.

2146C Minicomputer and Microcomputer Systems. One hour of lecture. Three hours of lab. 3 credits.
Real-time programming on a dedicated computer. Microprocessors, data communication protocol, packet switching.
Laboratory fee: \$50.
Prerequisite: COM 2113 or permission of the instructor.

2512. Networking and Communication. 3 credits. AE
Fundamentals of networking and communications; network concepts, hardware, software and programming. Data communications, wide and local area networks; communications architecture and protocols; network programming in C/C++ and JAVA.
Prerequisite: COM 2545.

2545 Algorithms. Three hours of lecture. Two hours of lab. 4 credits.
Sorts (Insertion sort, merge sort, heapsort and quicksort); Growth of functions and recurrences; Hash tables; Binary Search Trees and Red-Black Trees; Huffman codes; Graph algorithms including Minimum Spanning Trees and Shortest Path problems; Cryptography, String Matching and Computational Geometry.
Prerequisites: COM 1320, COM 1504, MAT 1412.

3511 Algorithmic Processes. 3 credits. AE
Design of algorithms and applications of data structure permutations, polynomials, derivations, matrices, sorting, discrete simulation; list marking, garbage collection, analysis of algorithms; space and time efficiency; comparison of sorting techniques; discrete Fourier Transform; pattern matching; computational models, Turing machines, complex hierarchies.
Prerequisite: COM 2545.

3563 Database Systems. 3 credits. AE
Goals of DBMS, including data independence, relationships, logical and physical organization, schema and subschema; hierarchical, network, and relational modes; examples of implementation of various models; first, second, and third normal forms of data relations; canonical schema; data independence; data description languages: forms, applica-

tions, examples, design strategies; query facilities: relational algebra, calculus, data structures for establishing relations; query functions; file organization; index organization; file security; data integrity and reliability.
Laboratory fee: \$50.
Prerequisite: COM 2545.

3610 Introduction to Operating Systems and Computer Architecture. 3 credits.
Review of instruction sets. I/O and interrupts, addressing schemes, microprogramming; dynamic procedure activation; dynamic storage allocation; design methodology, monitors, kernels, networks of operating system modules; elementary queuing; memory management: virtual memory, paging, segmentation; memory protection; multiprogramming.
Laboratory fee: \$50.
Prerequisites: COM 1320, COM 2113.

3640 Programming Languages. 3 credits.
Formal language concepts, including basic characteristics of syntax and grammars; regular, context-free, and ambiguous grammars; constructs for specifying and manipulating data types; language features affecting static and dynamic storage management; control structures and data flow; subroutines, procedures, block structures, interrupts, decision tables, recursion; relationship with good programming style; run-time considerations; interpretative languages, lexical analysis and parsing.
Prerequisites: COM 1320, COM 1621.

3645 Compiler Theory. 3 credits. AE
Grammars, languages, and their syntax and semantics; parsing and ambiguity; scanners; implementation of symbol tables; parsers; major parsing algorithms; techniques for machine-independent code generation; code optimization; syntax-directed translation schema.
Prerequisites: COM 2545, COM 3640.

3760 Artificial Intelligence. 3 credits. AE
Heuristic vs. algorithmic methods, cognitive processes, investigation of methods of making machines behave intelligently, problem solving, theorem proving, game playing, pattern recognition, question answering, learning self-organization, methods of programming such procedures, data structures and program organization, the mind-brain problem; and the nature of intelligence.
Prerequisite: COM 2545.

3764 Expert Systems. 3 credits. AE
Introduction to expert systems; components of an ideal expert system: knowledge base, rules, interpreter; secondary components: justifier, scheduler, consistency enforcer, blackboard; search space size, exhaustive search, single line of reasoning, hierarchical, generate, and test; combining evidence from multiple sources; utilizing metaknowledge; metarules and their source; detecting simple errors in rules; justification of rules; expert system tools: EMYCIN, OPS5, HEARSAY—III.
Prerequisite: COM 2545.

3772 Computer Graphics. 3 credits. AE
Software, hardware, and mathematical tools for the representation, manipulation, and display of topological and two- and three-dimensional objects; display devices; problems and objectives of computer graphics; point, vector, curve, and character generation; interactive vs. passive graphics; graphics data structures, graphics packages and graphics languages; 2-dimensional graphics: generation, transformation, window clipping, segmented display files and display procedures; interactive graphics: input devices, input techniques, event handling, and input functions; raster graphics fundamentals; 3-dimensional graphics: hidden-line problems, windowing, transformations, perspective projections, and shading.
Prerequisites: COM 2545, MAT 1412, MAT 2105.

3905; 3906; 3907; 3908; 3909 Individual and Group Projects. 1–3 credits per semester.
Faculty and students choose from among a number of term projects.
Laboratory fee: \$50 per semester. Prerequisite: 21 credits in COM courses or senior status.

4512. Advanced java Programming. 3 credits. AE
Review of Java Standard Edition: classes, interfaces, event handling, GUI, applets, strings, streams and files. Multithreading, advanced GUI, advanced data structures, network programming, Java Beans. Introduction to Java Enterprise Edition: servlets and JSP. Design Patterns: Model-View-Controller, Value object, Data Access, Business Delegate, Front Controller. Security.
Prerequisites: COM 2545, COM 3640.

4541 Numerical Analysis. 3 credits. AE
Arithmetic and precision; finite difference calculus; interpolation; approximation: numerical integration and differentiation; solution of nonlinear equations, differential equations; linear systems of equations; iterative methods; computation of eigenvalues and

eigenvectors.
Prerequisites: MAT 1413, COM 2545.

4550 Bioinformatics. 4 Credits.
This course introduces the student to current bioinformatics tools and databases by presenting an overview of the theoretical and practical applications of Computer Science to Biological Science. It covers the management of biological information and the application of the state-of-the-art in information technology towards the analysis and organization of scientific data. A principle focus is Molecular Biology due to the large amounts of data in this area. The course covers database structures and tools currently used for the facilitation of the collection and organization of data (e.g. GenBank) and methods and resources which deal with the study of three-dimensional structures of Biological models (e.g. PDB). Occasional guest lecturers share their knowledge and practical experiences in the field. The course covers algorithms, systems and databases that facilitate and expedite biological research, for the analysis of biological data, the prediction of biological functions based on structural data, and information management issues such as the fundamental principles of data mining.

4901 Independent Study.

4911 Guided Project

ECONOMICS (ECO)

Major: Yeshiva College

ECO 1011, 1021, 1101, 1201 (or 1221); STA 1021; 18 additional credits in ECO courses. FIN 1408 and up to 6 additional credits in courses in the Sy Syms School of Business may count toward the major. Courses in management information systems do not count toward the economics major. Students planning graduate study in economics are advised to take ECO 1421 and MAT 1412, 1413.

Minor: Yeshiva College

Eighteen credits including ECO 1011, 1021.

Please note that the Introductory courses (ECO 1011 and 1021), Intermediate Microeconomics (ECO 1101), and Money and Banking (ECO 1221) are offered every semester. Intermediate Macroeconomics (ECO 1201) is offered only in the spring semester. Generally, other electives are offered at most once a year on a rotational basis. Check with the economics professors for the courses planned over the next year.

1011 or 1011H Introductory Macroeconomics. 3 credits.
Introduction to the role of the price system in various economic systems; rudiments of supply and demand, theory and applications; role of government in the modern capitalist economy; national income, accounting and theory; monetary and fiscal policy; public debt; inflation, unemployment.

1021 or 1021H Introductory Microeconomics. 3 credits.
Elementary theory of demand and the firm; consumer behavior; market structure, input theory, distribution of income, government regulations, theory and policy; theory of international trade.

1101 Intermediate Microeconomics. 3 credits.
Theory of elasticity; indifference curves and applications; cost of production; output markets; externalities; input markets; linear programming; optimization theory with use of calculus.
Prerequisite: ECO 1021.

1170 Contemporary Microeconomic Issues. 3 credits.
Use of economic tools to explore issues of public policy and private decision making. Topics vary by term but may include uncertainty and information in economics, crime, government regulation of business, education, charity, immigration, contracts, discrimination, medical care, transportation, congestion, geographic location, income distribution.
Prerequisite: ECO 1021.

1177 Game Theory. 3 credits.
Development of models of rational behavior in interactive situations through the theory of noncooperative, cooperative and evolutionary games. Game theory is used for decisions and strategy whenever people interact to strike mutually agreeable deals or to resolve conflicts in such diverse fields as international relations, economics, business, politics, psychology, philosophy, or even evolutionary biology.
Prerequisite: ECO 1021.

1201 Intermediate Macroeconomics. 3 credits.
National income accounting; national income determination models; consumption functions; investment theory; business cycle theory; stabilization policy; LM-IS-BP analysis; aggregate demand and aggregate supply analysis; economic growth and development theories.
Prerequisite: ECO 1011.

1221 Money and Banking. 3 credits.
Nature of money; organization and functioning of the commercial banking system; description of financial markets and financial institutions; hedging mechanisms, yield curves, Federal Reserve System and financial intermediaries; national income determination models; monetarist-fiscalist debate; LM-IS-BP analysis; role of money in international finance.
Prerequisite: ECO 1011.

1301 History of Economic Thought. 3 credits.
Ancient and medieval economic thought; mercantilists and physiocrats; classical and neoclassical schools; institutional school; Keynesian economics.
Prerequisite: ECO 1021.

1421 Econometrics. 3 credits.
Application of regression techniques to the problem of testing and forecasting in economics. The two-variable regression model is fully developed; analysis is extended to consider the multivariate model, functional form issues, dummy variables, and distribution lag models. Covers problems associated with autocorrelation, multicollinearity, heteroskedasticity, and system models.
Prerequisites: ECO 1011, STA 1021.

1501 Public Finance. 3 credits.
Social balance, personal and corporate income taxes; sales and property taxes; current economic thought on taxation and public debt, expenditure analysis, energy, transportation, housing, education, pollution control, poverty, and quotas; externalities, public goods, public choice.
Prerequisites: ECO 1011, ECO 1021.

1701 International Economics. 3 credits.
The theory of international trade, international finance, commercial policy, balance of payments, the foreign exchange market, competitiveness in the global economy, international macroeconomics, and foreign direct investment. Emphasis on the determinants and effects of international linkages, including the roles of consumers, firms, and government policies, in the context of the international economic environment.
Prerequisites: ECO 1011, ECO 1021.

2005 Economics of the Law. 3 credits.
The relationship of legal institutions and laws to economic efficiency and social goals, such as justice. Economics of property rights, environmental control, administrative processes, contracts, and liability; public utility and antitrust regulation; individual

rights and discrimination.
Prerequisite: ECO 1011.

2201 Labor Economics. 3 credits.
Labor's place in the American economy; factors affecting supply and demand for labor; wage determination; unionism as a response to labor problems; industrial relations; public policy toward labor.
Prerequisite: ECO 1021.

(2330 Economics of Energy).

2401 Industrial Organization. 3 credits.
The application of microeconomic theory to industrial markets. Considers such areas as structure of the American economy, motivation of the firm, identification and measurement of monopoly power, oligopolistic behavior, patents, concentration, and government regulation.
Prerequisites: ECO 1011, ECO 1021.

2531 Health Economics. 3 credits.
Application of economic tools and concepts to the analysis of the health care field. Effects of health care on health, hospital behavior, health workforce supply, demand for health care. Role of demographic changes in health care systems. Methodology employed by economists to determine the economic losses suffered in cases involving death and disability. Emphasis on the United States and its current situation. Comparison with other countries.
Prerequisites: ECO 1011, ECO 1021.

2701 Managerial Economics. 3 credits.
Analysis of the firm's decisions regarding prices, output and input, advertising, etc., under various market conditions; applications to production, financial, and marketing operations. Attention given to the formulation of economic models to analyze management problems.
Prerequisites: ECO 1011, ECO 1021.

3005 or 3005H Forensic Economics. 3 credits.
Quantitative analysis techniques to estimate the economic damages sustained from unlawful actions under both tort and discrimination law. Detailed examination of economic and legal aspects of various calculation methodologies through the relevant literature and data sources. Exploration of potential areas of ethical conflict and the nature of the adversarial legal process. Also reinforces student writing, computer, research, and oral presentation skills through preparation of economic loss appraisal reports for real-life personal injury and wrongful

death cases, employment discrimination, lost business, lost pleasure of life (hedonic damages), etc.

3006 or 3006H Economics and Ethical Issues. 3 credits.
Comparison of the economic efficiency and Jewish law approaches to business ethics; advertising and promotional activities; business pricing policies; labor relations; government regulation of the economy; social welfare; speculation.

3501 Economics of the Middle East. 3 credits.
Economic growth of Israel until the Yom Kippur War; stagnancy and inflation since 1974; new economic policies since 1985; Middle East oil, OPEC, and the economies of Saudi Arabia, Egypt, Jordan, and Syria.
Prerequisite: ECO 1011.

(3511 The Economy of Israel).

3601 or 3601H Economic Perspectives. 3 credits.
Topics are based mainly on symposium themes of the *Journal of Economic Perspectives* and reflect the most recent work, but may include the following: fiscal policy, revision of LM-IS analysis, advanced consumption theory, regulation of the stock market and hedge funds, organizations and economics, economics and electronic commerce, the economics of higher education, health care reform, state vs. private ownership.
Prerequisites: ECO 1011, ECO 1021; and ECO 1201 or 1221.

4901 Independent Study.

4911 Guided Project.
Meet with the Yeshiva College academic dean.

ENGLISH (ENG)

Major: Yeshiva College
ENG 2010; nine additional courses in English (27 additional credits minimum), seven of which must be taken in residence. At least one of these courses must focus on pre-1700 British literature (ENG 2003, 2315, 2316, 2318, 2323, 2331, 2332, 2346, or 3424). Of the nine additional courses, at least seven must be Yeshiva College English literature courses. Two of the nine may be in writing and/or linguistics.

Each student majoring in English is required to maintain and complete a satisfactory portfolio containing selected pieces of writing from the English courses he has taken and reflective statements

including self-assessments of the student's work and comments about interconnections among the student's various courses and about his overall progress in the major. The student is required to meet with an assigned cluster advisor at least once per semester, for discussion about course selection and his portfolio. Portfolio guidelines are available from the English Faculty.

Students who declared the major in English by February 2004 will ordinarily follow the previous requirements, which are described in the 2002-2004 Undergraduate Catalog for Men. However, with permission from the English faculty, such students may instead choose to fulfill the new requirements.

**Minor: Yeshiva College
LITERATURE TRACK**

ENG 2010 and 15 additional ENG literature credits. All courses in the minor must be taken in residence.

Students who declared the minor in English by February 2004 will ordinarily follow the previous requirements, which are described in the 2002-2004 Undergraduate Catalog for Men. However, with permission from the English faculty, such students may instead choose to fulfill the new requirements.

WRITING TRACK

ENG 1101, 1102, and 12 additional credits in more-advanced writing courses. All courses in the minor must be taken in residence.

Note: ENG 1101-1102 is a prerequisite for all higher-numbered ENG courses. At Yeshiva College, one semester of ENG 2003, 2004, 2005, 2010, 2201, 2202, 2611, 2612 is a prerequisite for other ENG literature courses. Any exception must be approved by the instructor.

0001 Developmental English. No credits.

0011, 0012, 0013 English as a Second Language (ESL). Three hours. 1 credit.
Written and spoken English, including examination of the nature of the language. First-semester students who are not native speakers must take a placement examination to enter ENG 1101; otherwise, they are placed into one of the three levels of ESL. Each ESL student advances through these levels until he is ready to begin ENG 1101.

0011 English as a Second Language (ESL)-Intensive. Ten hours. 3 credits.

1101-1102 Composition and Rhetoric. Two hours plus conferences. 2 credits.

1101: Learning how to write a well-developed and coherent essay organized around a clear central idea and exhibiting mastery of sentence and paragraph structure as well as standard grammar, syntax, spelling, and punctuation. A minimum of four to six essays (3,000 words), with revisions, is required. 1102: Developing critical and analytical skills and rhetorical strategies for effectively defending a thesis and persuading an audience. The course requires an analytical research paper (1,500-2,000 words) with formal documentation, as well as a minimum of three or four additional essays (2,500 words), with revisions.

WRITING WORKSHOPS

Each workshop progresses from formal, technical exercises to original compositions. Criticism of work in progress and completed, group analysis, written recommendations, personal conferences. Students improve their basic writing skills and develop their creative talents.

Prerequisites: ENG 1101-1102.

1311 Technical Writing and Editing. 3 credits.

1324 Business Writing. 3 credits.

1407 Expository Writing. 3 credits.

1601 Print Journalism. 3 credits.

1641 Broadcast Journalism. 3 credits.

1721; 1722; 1723; 1724 Creative Writing. 3 credits.

1743 or 1743H Creative Fiction Writing. 3 credits.

1822 Writing Fiction. 3 credits.

1832 Writing Poetry. 3 credits.

1931H, 1932H Freshman Honors Seminar. 3 credits.

Reading literary and other texts: fiction, nonfiction, poetry, and drama. Writing critical and analytic essays, with emphasis on revision. 1932H requires an analytical research paper with formal documentation. Open only to students admitted to the Jay and Jeanie Schottenstein Honors Program.

2003 or 2003H British Literature: Medieval through Shakespeare. 3 credits.

A survey of British literature from its origins through the beginning of the 17th century. This course can be applied to either the literature requirement for graduation or the requirements for the major in English.

2004 or 2004H British Literature: Donne through the Romantics. 3 credits.

A survey of British literature from the early-17th century through the mid-19th century. This course can be applied to either the literature requirement for graduation or the requirements for the major in English.

2005 British Literature: Victorian through Contemporary. 3 credits.

A survey of British and commonwealth literature from the mid-19th century through the present. This course can be applied to either the literature requirement for graduation or the requirements for the major in English.

2010 Interpreting Texts. 3 credits.

Introduction to at least three and as many as five major approaches to literary interpretation. Examples: close reading, reader response criticism, deconstructionism, new historicism, and cultural studies. Students will read literary works in various genres and learn to interpret them by applying literary theory. Each student should develop a complex, multipronged understanding of literature and literary criticism. This course can be applied to the literature requirement for graduation; it is required for both the major and for the minor (literature track) in English. Not open to students who have received credit for ENG 2001.

2201 World Literature: Ancient and Classical. 3 credits.

A survey of works representing the literary, historical, and philosophical imagination of ancient and classical Greece and classical Rome. Emphasis on close reading of texts. This course can be applied to either the literature requirement for graduation or the requirements for the major in English. Not open to students who have received credit for English 4201, which it replaces.

2202 World Literature: Postclassical to Contemporary. 3 credits.

A survey of works representing the literary, historical, and philosophical imagination of the West from postclassical antiquity to modern times. Emphasis on close reading of texts. This course can be applied to either the literature requirement for graduation or the requirements for the major in English. This course is not open to students who have received credit for English 4202, which it replaces.

2315 Chaucer. 3 credits.
Major works, with emphasis on *The Canterbury Tales*.

2316 Medieval Literature in Modern English. 3 credits.

Medieval English and continental masterpieces in modern English translation. Works in various genres (romance, lyric, allegory, saga, epic) illuminate intellectual, social, and literary conventions, such as courtly love, chivalry, the heroic ideal, Arthurian traditions, and the quest for salvation. Special topics may be chosen each semester.

2318 or 2318H The World of King Arthur. 3 credits.

A broad chronological survey of the Arthurian literary tradition, focusing on the resources of the World Wide Web. The course concentrates largely on medieval texts (Latin, Welsh, and English chronicle materials; English and French romances) but includes some 19th- and 20th-century Arthurian poetry and fiction. All works are read in Modern English translation. Course requirements include midterm and final hypermedia projects.

2323 Elizabethan and Jacobean Poetry and Prose. 3 credits.

More, Sidney, Spenser, Shakespeare, Jonson, and Donne.

2331; 2332 Shakespeare I; II. 3 credits.

First semester: histories and comedies; second semester: tragedies, problem plays, and romances. Consideration of the plays in the contexts of Renaissance and modern theatrical and dramatic conventions.

2346 Milton and 17th-Century Literature. 3 credits.

Studies in the works of Milton and other authors.

2356 English Literature in the 18th Century. 3 credits.

Studies in the works of Pope, Swift, Jonson, Blake, and other authors.

2360 The Enlightenment. 3 credits.

Continental and English masterpieces by writers and thinkers of the 17th and 18th centuries.

2400 The Romantic Vision. 3 credits.

Characteristic, influential, and significant works by British and continental authors, with a view to understanding some of the major interests, concerns, and attitudes prevalent in the Romantic period.

2410 or 2410H The Victorian Web. 3 credits.

Major writers—such as Carlyle, Macaulay, Dickens, Mill, Newman, Browning, Arnold, Tennyson, Huxley,

Ruskin, Hopkins, and Pater—in relation to the intellectual, social, and cultural milieu.

2611 American Literature through the Civil War. 3 credits.

The development of American literature from its beginnings through the Civil War. This course can be applied to either the literature requirement for graduation or the requirements for the major in English.

2612 American Literature: 1865 to the Present. 3 credits.

The development of American literature from the period immediately following the Civil War to the present. This course can be applied to either the literature requirement for graduation or the requirements for the major in English.

2861 or 2861H; 2862 or 2862H Major Authors. 3 credits.

Works by a maximum of four major authors, usually English, American, or both. May be repeated, as the subject matter varies from term to term.

2910 American Autobiography. 3 credits.

Diverse forms of personal narratives in the United States from the 16th century to the present; emphasis on the changing needs that writing autobiography has served over this period, and the variety of forms that writers' life stories have taken.

2911 Literature and Culture of the American City. 3 credits.

How writers have responded to intensifying urbanization in the United States, largely since the end of the 19th century, and the role of literature in defining a distinctly "urban" culture or consciousness during this period. Fulfills the core requirement for the minor in American Studies.

2912 American Literature and Culture 1876–1918. 3 credits.

The dramatic cultural transitions—particularly those accompanying urbanization, industrialization, and immigration—that shaped writing and society in the United States from the decade following the Civil War through the end of World War I. Fulfills the core requirement for the minor in American Studies.

2913 American Literature and Culture 1919–41. 3 credits.

Literature's response to cultural events between the two world wars, especially the rise of middle-class consumer culture and conservative social values

during the 1920s, and the crisis of confidence and effort to restore order during the Depression. Fulfills the core requirement for the minor in American Studies.

2914 Literature and Culture of Rural America. 3 credits.

Examines, in its historical context, literature—as well as film, music, art, and material culture—that deals with life on farms and in small towns across the United States since the 19th century. Probes the conflicts and tensions that surround rural ideals in an increasingly urban United States and the ways in which "rural America" has come to stand for national values.

2915 or 2915H Chicago and New York at the Turn of the 20th Century. 3 credits.

Focuses on Chicago and New York at the pivotal moment when urbanization was profoundly altering US cultural life. Particularly concerned with conflicts over "American" values in US urban life, and with the role of literature in the development of a distinctly "urban" culture and consciousness.

2961; 2962 Contemporary Literature. 3 credits.

Fiction, poetry, drama, or nonfiction prose by contemporary authors, usually English, American, or both. May be repeated, as the subject matter varies from term to term.

3189 Comedy and Satire. 3 credits.

Theories of and studies in comedy and satire, from their classical roots through the present. Authors may include Aristophanes, Terence, Boccaccio, Rabelais, and Moliere.

3208 The Art of Fiction. 3 credits.

How great writers of fiction shape their audiences' responses through traditional and experimental strategies.

3237 Great Short Fiction. 3 credits.

Survey of outstanding short novels or long short stories by European and American writers.

3315; 3316 The English Novel. 3 credits.

The development of the novel genre through selected English novels. First semester: Defoe, Richardson, the sentimental and gothic novels, Austen, the Brontës, Dickens; second semester: Eliot, Hardy, Conrad, Joyce, Woolf, and others.

3342 Modern American Fiction. 3 credits.

Novels and short stories by American writers since World War I.

3376 Classic Modern Novels. 3 credits.

Intensive study of five landmark novels, some in translation, by authors who have explored new territory in modern fiction.

3408 The Art of Drama. 3 credits.

Theatrical conventions and techniques to clarify how dramatists convey meaning and hold an audience; intensive examination of selected American, English, and Continental plays.

3411 Tragedy. 3 credits.

Selected works from different periods and cultures. Emphasis on understanding the forms of tragic drama and the nature of the tragic vision of life.

3424 Renaissance Drama. 3 credits.

Renaissance plays by authors other than Shakespeare.

3426 Great Drama from Dryden through Ibsen. 3 credits.

Restoration drama through early modern experiments with realism and symbolism.

3461 Modern Drama from Ibsen to the Present. 3 credits.

European, British, and American dramatists such as Ibsen, Strindberg, Chekhov, Shaw, Pirandello, O'Neill, Beckett, Ionesco, Williams, Miller.

3622 or 3622H Jewish New York. 3 credits.

Uses an interdisciplinary approach to explore key areas of community, tension, and change within developing Jewish cultures in New York City since the end of the 19th century: work and worship on the Lower East Side; political, economic, and ethnic conflict; suburbanization; and the legacy of the Holocaust.

3717 The Art of Poetry. 3 credits.

Poetic techniques and meanings through intensive examination of selected works.

3742 Modern Poetry. 3 credits.

Nineteenth-century roots of modern masterpieces (Eliot, Pound, Frost, Yeats); contemporary poets.

4051, 4052 Introduction to Linguistics. 3 credits.

How scientific procedures are applied to discover the structure of languages. Provides a body of factu-

al knowledge about the languages of the world, their diversity, what features they have in common, and the relationships among them.

4061, 4062 History of the English Language. 3 credits.

4081 Classic Literary Criticism and Theory. 3 credits. Plato through the 19th century. Exploration of fundamental questions: What is literary art? What value does it have? How does it work? How is it understood and judged? Analysis of works selected for relevance.

4086 Modern Criticism and Theory. 3 credits.

How particular modern and contemporary theories can help readers understand particular works, the nature of literature, and the process of interpretation.

4411 Literature and Social Change. 3 credits.

Literary explorations with an historical or sociological slant. May focus on one of the following topics: literature and war, literature and revolution, literature of the underclass, or the immigrant experience in America.

4421 Literature and Psychology. 3 credits.

Relations between systems of psychology and literary works, from the Greeks through the dominant modern systems of Freud, Jung, and Laing.

4519 American Jewish Literature. 3 credits.

Literature written by Jews in the United States since 1900. Focuses on how these texts deal with the experiences of immigration and suburbanization, conflicts between tradition and modernity, and the legacy of the Holocaust. Authors include Cahan, Yezierska, Gold, Singer, Roth, Malamud, Bellow, Ozick, Olsen, and Paley.

4551 or 4551H; 4552 or 4552H Topics in Literature. 3 credits.

Special topics courses. Courses offered recently under these numbers include "Constructions of Otherness," "From Gutenberg to Ben Franklin: The Impact of the Hand Press," "Contemporary World Fiction," "Gothic Traditions." May be repeated, as the subject matter varies from term to term.

4571 Parents and Children. 3 credits.

The portrayal in literature of the splendors and miseries of having children; generational conflict; people's changing attitudes, first as young children, then as parents of children and as middle-aged children of aging parents.

4901 Independent Study.**4911 Guided Project**

Meet with the Yeshiva College academic dean.

ENTREPRENEURSHIP (ENT)

Minor: Sy Syms School of Business

Five courses chosen from ENT 2210, 2250, 2251, 2255, 2410, 2415, 2508, 2941, 3021, 3501, 3780, 3786, 3790, 3796, 4931.

2210 Direct Marketing. 3 credits.
 (Same as MAR 2210).

Selling directly to the consumer or business entity. Examines various aspects of direct marketing such as the use of catalogs, mail order, mailing-list selection, TV, radio, print, and telemarketing. Focuses on the management utilization of direct marketing strategy and implementation.
Prerequisite: MAR 1001.

2250 Internet for Business. 3 credits.
 (Same as INF 2250).

Exploration of opportunities created by the rapidly expanding Internet, with emphasis on commerce and industry. History and components, World Wide Web, gopher space, ftp, telnet, usenet, e-mail, use and strategies, search engines, Web-page design, multimedia, browser, slip/PPP access, software, hardware, and troubleshooting.
Prerequisite: INF 1020.

2251 Advanced Internet for Business. 3 credits.
 (Same as INF 2251).

Building on material covered in Internet for Business I, gives students a more complete understanding of the strategic implications of the Internet for business. Covers advanced HTML, techniques for improving Web site design and effectiveness, sophisticated Web development tools, learning to maximize the benefits of internal and external search engines, customer-integrated transaction-processing systems, domains and the hosting of Web pages, intranets and extranets, on-line databases; an object-oriented approach to design; and the convergence of emerging technologies for use on the Internet.
Prerequisite: ENT/INF 2250.

2255 E-Commerce: Internet Marketing. 3 credits.
 (Same as INF/MAR 2255).

The practical applications of e-commerce in the marketplace today, including both customer-to-business and intra-business interactions. Associated

business models, security and firewalls protocols (authentication, encryption, SSL, X.509, LDAP), electronic payment protocols (SET, e-cash), collaboration/on-line catalogs, and the required network infrastructure (TCP/IP).

Prerequisites: INF 1020, MAR 1001.

2410 Sales Management. 3 credits.
 (Same as MAR 2410).

A survey of the sales management field and analysis of sales force management. Organizing; staffing and training a sales force; directing sales force operations; sales planning; and evaluating sales performance.
Prerequisite: MAR 1001.

2415 Retail Management. 3 credits.
 (Same as MAR 2415).

Starting, developing, and growing a retailing organization, from both entrepreneurial and professional managerial perspectives. How retailing enhances the marketing mix, improves the effectiveness of the distribution network, and dynamically evolves in conjunction with environmental factors.
Prerequisite: MAR 1001.

2508 Entrepreneurial Finance. 3 credits.
 (Same as FIN 2508).

How entrepreneurs secure financing for their business ventures: sources of funding such as investors, venture capital, SBA loans, asset-based financing, lines of credit; creation of business plans and loan proposals; developing cash flow projections; evaluation of loan requests by lender/investors.
Prerequisite: FIN 1001.

2711 Venture Capital. 3 credits.
 (Same as FIN 2711).

Past, current and future state of venture capital. Presents the fundamentals of entrepreneurship while maintaining a strong emphasis on the current state of affairs. Active participation by guest speakers who are prosperous entrepreneurs. Students gain information not found in any textbook to apply to the successful operation of their own businesses.
Prerequisite: FIN 1001.

2941 Sports Marketing. 3 credits.
 (Same as MAR 2941).

Examines how money and marketing help drive the sports industry. Tracks the foundation of sports marketing and how companies leverage sports to obtain sales goals. Covers professional, collegiate, amateur sports, and sporting goods companies. Industry pro-

fessionals highlight what they do and the role that marketing plays in their career.

Prerequisite: MAR 1001.

3021 Entrepreneurial Law and Intellectual Property. 3 credits.
 (Same as BLW/MAN 3021).

Choosing, forming, and managing different types of business organizations, including sole proprietorships, joint ventures, franchises, business trusts, general and limited partnerships, LLPs, LLCs, and corporations. Trademark, copyright, patent, and trade secret considerations; labor law and employer-employee relations.
Prerequisite: BLW 2021 or 2111.

3501 Israeli Business Law. 1 credit.
 (Same as MAN 3501).

Introduction to Israeli high tech, venture capital in Israel; overview of Israeli business law, tax law, accounting law, entrepreneurship, cultural issues; investing in Israeli start-ups; leading corporations in Israel; job market in Israel.
Prerequisite: MAN 1020

3780 Principles of Entrepreneurship. 3 credits.
 (Same as MAN 3780).

New venture initiation and development; the practical approach to developing and implementing procedures and techniques for starting an enterprise. Class discussions based on readings and case studies.
Prerequisite: MAN 1020.

3786 New Venture Planning. 3 credits.
 (Same as MAN 3786).

Use of the business plan, the critical element of entrepreneurship, as a guide to the successful operation of a business venture. Students learn the essential ingredients necessary for an effective plan, select and present an enterprise that they are personally interested in, and develop a persuasive written plan that can be used to attract financing, key employees, and mentors.
Prerequisite: ENT/MAN 3780.

3790 Managing a Growing Business. 3 credits.
 (Same as MAN 3790).

Managing and enhancing an ongoing growth business organization, including establishing a management team, satisfying investors, and building loyal customers. Labor employment laws, merger and acquisition strategy, strategy for capital foundation, and business conflicts and resolutions.
Prerequisite: MAN 1020.

3796 Franchising, Licensing, and Distributorships. 3 credits.
 (Same as MAN/MAR 3796).

Essential elements of franchising from the viewpoint of both franchiser and franchisee. Explores franchising opportunities and their planning and implementation. Discussion of licensing and distributorship as viable business ventures.
Prerequisite: MAN 1020.

4931 Seminar: Contemporary Problems in Business. 3 credits.
 (Same as MAN 4931).

Today's business environment requires imaginative leadership to deal with the turbulent global marketplace. Top executives from leading multinational corporations present a general overview and discuss the corporate culture of their organizations, outline the competitive climate in their industries, and share their views of the ingredients needed to survive in today's rapidly changing economic environments.
Prerequisite: upper-class status or permission of Sy Syms dean.

FINANCE (FIN)

Major: Sy Syms School of Business

Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456; FIN 1408, 2505; two courses chosen from 2409, 2521, 3510; one chosen from 2511 or 3851, and one from 2508, 3011, 3015, 3020, 3301, 3401, 3603, or 3932 (18 credits); Business electives: three courses chosen from ACC, ENT, INF, MAN, MAR, REA (9 credits); and FIN 4970.

Minor: Sy Syms School of Business

Five courses chosen from FIN 1408, 2409, 2505, 2508, 2511, 2521, 3011, 3015, 3020, 3301, 3510, 3851, 3603, 3851, 3932 (15 credits).

1001 Principles of Finance. 3 credits.

Introductory survey of the fundamentals of financial management, financial analysis, and the securities markets. Provides a general understanding of financial institutions, terms and rights of stockholders and bondholders, and the corporate financial structure. Covers sources and uses of capital, debt versus equity, present value techniques, valuation, capital asset pricing, and capital budgeting.
Prerequisite or corequisite for finance majors: ACC 1001.

1408 Corporate Finance. 3 credits.

Introduction to the principles and techniques of corporate financial management; financial analysis, pro forma financial statement forecasting, firm value optimization and valuation models, capital structure, stock price valuation, bond pricing and returns, compounding and discounting, cash budgeting, working capital, risk and return, capital budgeting techniques, long- and short-term financing decisions, leverage, dividend policy, the cost of capital. Problems and applications utilizing commercially available computer software.

Prerequisite: FIN 1001.

Prerequisite or corequisite: ACC 1002.

2409 Advanced Corporate Finance. 3 credits.

The corporate finance function and decision-making process. Course examines specialized topics and may utilize case presentations. Evaluation of capital expenditure proposals, risk/return, diversification, capital structure, investment and financing decisions, capital markets, cash and credit management, mergers, acquisitions, LBOs, and global financial strategies.

Prerequisite: FIN 1408.

Prerequisite or corequisite: STB 1456.

2505 Investment Analysis. 3 credits.

Features and characteristics of available investment opportunities; fundamental principles for choosing sound investment vehicles to meet investor risk/return objectives. Stocks, bonds, warrants, convertibles, preferreds, municipal bonds, governments, options, and futures are defined and analyzed, utilizing fundamental technical and portfolio optimization techniques. Implementation of investment research using PC and mainframe databases and software.

Prerequisite: FIN 1001.

Prerequisite or corequisite: ACC 1002.

2508 Entrepreneurial Finance. 3 credits.

(Same as ENT 2508).

How entrepreneurs secure financing for their business ventures: sources of funding such as investors, venture capital, SBA loans, asset-based financing, lines of credit. Creation of business plans and loan proposals, development of cash-flow projections, and the evaluation of loan requests by lender/investors.

Prerequisite: FIN 1001.

2511 Security Analysis. 3 credits.

The role and activities of the equity analyst. Cases

and lectures help develop students' analytical skills and appreciation of the usefulness and limitations of financial statements. Various approaches to equity valuation are considered.

Prerequisite: FIN 1408 or 2505.

Prerequisites or corequisites: ACC 1001, ACC 1002.

2521 Portfolio Management. 3 credits.

Theoretical analysis and practical applications of modern portfolio theory to individual and institutional portfolio management; optimal asset selection and allocation decisions, portfolio mix, and the evaluation of portfolio performance; Markowitz diversification, single and multi-index models, capital market theory, capital asset pricing, arbitrage pricing, fixed-income securities, and options strategies.

Implementation of portfolio optimization design using PC and mainframe databases and software.

Prerequisite: FIN 2505.

Prerequisite or corequisite: STB 1456.

2711 Venture Capital. 2 credits.

(Same as ENT 2711).

Past, current and future state of venture capital. Presents the fundamentals of entrepreneurship while maintaining a strong emphasis on the current state of affairs. Active participation by guest speakers who are prosperous entrepreneurs. Students gain information not found in any textbook to apply to the successful operation of their own businesses.

Prerequisite: FIN 1001.

3011 Principles of Insurance. 3 credits.

Discusses the basic principles of the field of insurance and risk management, including ethical, financial, social, economic, and political issues. Students analyze institutional aspects of risk management to allow the business or individual to minimize financial loss from unforeseen courses.

Prerequisite: FIN 1001.

3015 Global Insurance and Risk Management. 3 credits.

A comprehensive study of insurance and risk management in a global context. Systematic examination of various environmental factors (economic, financial, political/ legal, regulatory/tax, demographic/sociocultural, and physical/technological), and the patterns and degrees of change associated with each. Course objective is to provide students with technical and managerial skills suitable for use in the rapidly changing global setting of insurance and risk management. Major ethical, social, and political issues are examined. Current events and trends are

noted throughout; students follow the performance of a selected portfolio of global insurance stocks.

Prerequisite: FIN 1001.

3020 Financial and Estate Planning. 3 credits.

A comprehensive study of personal management from the individual consumer, family, and small-business points of view, with a life-cycle perspective. The course explores 1) financial goals and objectives, budgets and other tools, money and money management, borrowing and debt management, tax planning, and housing; 2) personal risk management and insurance (life, health, property, and liability); 3) stocks, bonds, mutual funds, and other investments; 4) and retirement and estate planning.

Prerequisite: FIN 1001.

3301 Historical Development of Modern Finance. 3 credits.

An examination of the historical development of financial institutions and markets from the Middle Ages to the present. Focuses specifically on the contributions of key Jewish individuals and families, such as Bernard Baruch, Alex Brown, Goldman Sachs, Lehman, Loeb, Rothschild, Schiff, and Warburg.

Prerequisite: FIN 1001.

3310 History of Merchant Banking. 3 credits.

Examines the historical development of modern investment banking. Merchant banking and private banking. Emphasis on the United States and the United Kingdom from 1815 to the present, and the fiscal, monetary, political, technological, banking, and financial market developments and issues that have affected such specialized financial intermediaries.

Prerequisites: FIN 1001.

3401 Business Forecasting. 3 credits.

Promotes strong fundamental understanding of forecasting techniques and their application to business. Covers simple linear regression, multiple regression, and logistic regression, and introduces time-series models. Discussion of the derivation of various models; development of the understanding needed to apply them to real-life business problems.

Prerequisites: FIN 1001, STB 1131.

3510 Speculative Markets: Futures Markets and Options. 3 credits.

Comprehensive overview of commodities, financial futures, and options on futures. The market microstructure and its evolution, trading applications, and the use of technical and fundamental analysis; exchange operations. Trading mechanics,

hedging and speculation, price forecasting, testing and optimizing trading systems, performance spreading, and option pricing theory. Students implement a PC commodity-market simulator.

Prerequisite: FIN 1408 or 2505.

Prerequisite or corequisite: STB 1456.

3603 International Finance. 3 credits.

Analysis of special topics in international finance, including international capital flows, theories of foreign exchange-rate determinations, Eurocurrency and Eurobond markets, and integration of multinational markets.

Prerequisite: FIN 1001.

3851 Financial Statement Analysis. 3 credits.

(Same as ACC 3851).

Designed primarily for non-accounting majors. Methods of communicating information about financing and operating activities of corporations, and techniques for analyzing and evaluating that information.

Prerequisites: ACC 1002, FIN 1001.

3932 Capital Markets and Financial Institutions. 3 credits.

Structure and evolution of financial institutions; role of financial markets in allocating funds and absorbing risk; relationships among markets; financial intermediation.

Prerequisites: ECO 1011, ECO 1021; and ECO 1221 or FIN 1001.

4970 Senior Research Paper. One hour. No credit.

An individualized approach to assisting each student in selecting a topic for, designing, and completing the senior research paper required for graduation. Students work one-on-one with faculty members in their respective disciplines.

Prerequisite: senior status.

6806 Financial Statement Analysis. 3 credits.

In-depth interpretation of financial statements for decision makers. Explores traditional methods of analysis as well as the impact of accounting conventions.

Prerequisites: ACC 3201, ACC 3601.

FOREIGN LANGUAGES

Yeshiva College offers instruction in the following foreign languages: French, German, Japanese, Russian, Semitic languages (Arabic, Aramaic), Spanish, and Yiddish. Full course descriptions and programs are listed under each language. Course

descriptions for Latin and Greek are listed under Classical Languages.

Hebrew is not considered a foreign language at Yeshiva College.

Minor: Yeshiva College

Twenty-Four credits in two foreign or classical languages. Students must complete the intermediate sequence (or higher) in each language. Students wishing to minor in Greek or Latin should refer to the requirements for the classics minor.

FRENCH (FRE)

Major: Yeshiva College

Twenty-seven credits in FRE courses including 2101, 2102 (or 2125–2126 and 2127–2128) and 1421. FRE 1101–1102 and 3000-level courses may not be included. Requirements also include such additional courses, not exceeding 15 credits, as may be prescribed by the cluster advisor for the individual student. Recommended: courses in classics or another foreign language, English literature, history, political science and philosophy. Cluster advisor: Dr. H. Haahr.

Minor: Yeshiva College

Eighteen credits in FRE courses, including one advanced language course—either FRE 1245 or 1421—and two literature courses, one of which should cover the medieval and pre-modern periods. 3000 level courses may not be included.

1101, 1102 Elementary French. 3 credits. Essentials of oral expression, listening comprehension, reading and writing skills. Introduction to French and francophone culture. For students with less than two years of high school French. Students with one year of high school French may enter 1102 with permission of the instructor.

1201, 1202 Intermediate French. 3 credits. Intensive review of grammar; readings in literature; exercises in composition and conversation. Prerequisite: two years of high school French or FRE 1102. Students with three years of high school French may enter 1202 with permission of the instructor.

1245; 1246 Oral French: Drama Workshop. 1 credit. Development of oral proficiency through the production of a play in French.

(1247; 1248 Oral French). 1 credit. Emphasis on oral proficiency related to a wide variety of

subject matter; vocabulary building. Reports and class discussion to acquire fluency and ease of expression. Prerequisite: FRE 1202.

1421 Advanced Language and Composition. 3 credits.

Work on special problems of grammar; frequent exercises in translation; practice in composition and conversation. Prerequisite: FRE 1202.

(1503 French Civilization).

(1843 History of the French Language).

2101; 2102 Masterpieces of French Literature. 3 credits.

Great works of French prose, poetry, and drama of the various periods. Prerequisite: four years of high school French or FRE 1202.

2125; 2126; 2127; 2128 Survey of French Literature. 3 credits.

First semester: medieval period and Renaissance; second semester: 17th and 18th centuries; third semester: 19th century; fourth semester: 20th century. History of the literature of the periods and detailed study of representative works. Prerequisite: four years of high school French or FRE 1202.

2284; 2285 The Modern Novel.

2323 French Theatre. (2437 Literature of the 17th Century). (2448 Literature of the Enlightenment).

2460 or 2460H French Jewry, 1806–1905: Images and Identities. 3 credits.

History of the Jews in 19th-century France and their representation as other in the art and literature of the period.

(2580 Literature of Existentialism).

2632 or 2632H Baudelaire, Rimbaud and Mallarmé.

3284; 3285 Modern Novel in Translation.

3323 French Theatre in Translation. (3580 Literature of Existentialism in Translation).

3632 or 3632H Baudelaire, Rimbaud and Mallarmé.

4901 Independent Study.

4911 Guided Project. Meet with the Yeshiva College academic dean.

GERMAN (GER)

Cluster advisor: Dr. H. Haahr.

1115 Reading German. 3 credits. Development of reading skills in German for academic research and other purposes.

HEBRAIC STUDIES (HES)

This designation indicates block transfer credit granted for courses taken at other schools. Except for Jewish studies majors, a maximum of 36 credits in Hebraic studies are accepted by Yeshiva College and Sy Syms School of Business from IBC, JSS, MYP, and BMP.

JAMES STRIAR SCHOOL OF GENERAL JEWISH STUDIES

1000 through 1099 Hebrew Language and Literature. 4 credits each.

A comprehensive four-year sequence providing the beginning student, in systematic, progressive stages, with a reading, writing, and speaking knowledge of Hebrew; an introduction to the basic texts of ancient and modern Hebrew literature; and a knowledge of Jewish history and philosophy.

YESHIVA PROGRAM /MAZER SCHOOL OF TALMUDIC STUDIES

1100 through 1199 Hebrew Language and Literature. 0–3 credits each.

Analysis of Talmudic texts and commentaries in the original Hebrew and Aramaic; discussion of their cultural implications.

ISAAC BREUER COLLEGE OF HEBRAIC STUDIES

1200 through 1299 Hebrew Language and Literature. 3 credits each.

A comprehensive and intensive program in the major areas of Jewish learning, such as Talmud, Bible, Hebrew language and literature, Jewish history, Jewish philosophy and ethics, and Jewish law. HES transfer credits for IBC students may be counted towards a Jewish Studies major in YC. (see JST).

S. DANIEL ABRAHAM ISRAEL PROGRAM OF YESHIVA UNIVERSITY

1400 through 1499 Hebrew Language and Literature.

This designation indicates block transfer credit granted for courses taken in the university's Joint Israel Program. Up to 16 credits per semester and a total of up to 32 are accepted by Yeshiva College.

OTHER INSTITUTIONS

1500 through 1599 Hebrew Language and Literature.

This designation indicates credit granted for courses in Hebrew language and literature taken at other institutions. The maximum number of credits accepted toward a YC, SCW, or SSSB degree for work in an American non-degree-granting institution is 8 per semester and a total of 32 for work in an Israeli institution, as above.

BEIT MIDRASH PROGRAM

1600 through 1699 Hebrew Language and Literature. 0-2 credits each.

A program consisting of traditional Talmudic texts and commentaries accompanied with student preparation (*Seder*), with additional courses in Jewish philosophy and ethics (*Machshevet Israel*) and Jewish law and its development (*Halacha*).

HEBREW (HEB)

Major: Yeshiva College

Twenty-four credits in HEB courses more advanced than 1206. For YC, IBC students, these must be transferred from Isaac Breuer College.

Major: Isaac Breuer College

Twenty-nine credits in HEB courses; comprehensive examination or HEB 4950. Students who complete HEB 4950 need not take a qualifying examination in their minor subject.

Minor: Yeshiva College

Twelve credits in Hebrew courses more advanced than 1206.

Minor: Isaac Breuer College

Twenty-three credits in Hebrew courses; qualifying examination.

At Yeshiva College and Isaac Breuer College, course offerings begin with HEB 1205.

1101–1102 Beginner's Hebrew. 3–4 credits.
No credit if taken after two or more years of high school Hebrew. Introduction to the reading, writing, translating, and speaking of Hebrew; first principles of grammar.

1103–1104 Elementary Hebrew. 3–4 credits.
No credit if taken after two or more years of high school Hebrew; students with three years of high school Hebrew may enter HEB 1104 or 1104B or 1203 or 1203A with permission of the instructor. The continuation of this course is HEB 1203 or 1203A.

1121–1122 Elementary Hebrew. 2–3 credits.
Review of Hebrew grammar, selected readings of classical and modern Hebrew literature, practice in writing and speaking Hebrew. The continuation of this course is HEB 1205, 1206.
Prerequisite: one year of high school Hebrew or equivalent; no credit if taken after more than two years of high school Hebrew.

1203–1204 Lower Intermediate Hebrew. 2–4 credits.
No credit if taken after four years of high school Hebrew. Students with superior records in HEB 1102B or in 1104B or in high school Hebrew may enter HEB 1204 with permission of the instructor. Review of grammar, selected readings and translation, composition, and conversation. The continuation of this course is HEB 1205. (When taken for 4 credits, the continuation of this course is HEB 1206 or 1231).
Prerequisite: HEB 1102B or 1104B or two years of high school Hebrew.

1205, 1206 Intermediate Hebrew. 3–4 credits.
Systematic review of applied grammar (phonology, morphology) to enhance comprehension and expression. Readings in various genres of Hebrew literature and newspapers; sentence construction. The continuation of this course is HEB 1207 or 1231.
Prerequisite: HEB 1204 or four years of high school Hebrew.

1207, 1208 Upper Intermediate Hebrew. 3 credits.
Graded readings, composition, and conversation. Unvocalized texts and Israeli newspapers.
Prerequisite: HEB 1206 or equivalent, with good knowledge of grammar.

1231 Conversational Hebrew. 3 credits.
Directed toward the development of fluency in speaking Hebrew.
Prerequisite: HEB 1204 or 1205.

1310 Advanced Hebrew. 3 credits.
Grammar, writing, and conversation.
Prerequisite: HEB 1206 or equivalent.

1311 Advanced Grammar. 3 credits.
Hebrew syntax and grammar; varieties of construction and idioms; compositions and exercises.
Prerequisite: HEB 1206 or equivalent.

1321, 1322 Biblical Hebrew. 3–4 credits.
Review of basic forms; principles of phonology, morphology, and syntax.
Prerequisite: HEB 1205 or permission of the instructor.

1409, 1410 Advanced Conversation. 3 credits.
Spoken modern Hebrew, using advanced textbooks and Israeli newspapers.
Prerequisite: HEB 1208 or equivalent.

1419; 1420 Exposition and Narration. 3 credits.
Advanced writing course.
Prerequisite: HEB 1206 or equivalent.

2525 Medieval Hebrew Poetry. 3 credits.
Selected readings in the Hebrew poetry of the Middle Ages, with emphasis on Yehudah Halevi, Shmuel Hanagid, Solomon Ibn Gabirol, and Abraham Ibn Ezra.
Prerequisite: HEB 1206 or equivalent.

2535 Medieval Hebrew Prose. 3 credits.
Selected readings in Hebrew prose of the Middle Ages, with emphasis on Maimonides.
Prerequisite: HEB 1206 or equivalent.

2657 Modern Hebrew Prose. 3 credits.
The Hebrew short story and novel from 1880 to the present.
Prerequisite: HEB 1206 or equivalent.

2667 The Hebrew Novel. 3 credits.
Critical study of representative works of such writers as Agnon, Appelfeld, Barash, Brenner, Hazaz, Megeed, and Mendele, Amos Oz, A.B. Yehoshua, and others.
Prerequisite: HEB 1206 or equivalent.

2669 The Hebrew Short Story. 3 credits.
Detailed examination of the short story genre, its main characteristics, motifs, themes, and techniques as reflected in the works of Agnon, Appelfeld, Baron, Hazaz, Oz, Shenhar, Shoffman, and others.
Prerequisite: HEB 1206 or equivalent.

2677 The Modern Hebrew Essay. 3 credits.
Selected readings from the 19th and 20th centuries.
Prerequisite: HEB 1206 or equivalent.

2679 Modern Hebrew Poetry. 3 credits.
Major poems of modern masters from 1880 to the present.
Prerequisite: HEB 1206 or equivalent.

2687 Foundations of Renaissance Literature. 3 credits.
The works of Ahad Ha'am, Bialik, and Mendele.
Prerequisite: HEB 1206 or equivalent.

2688 Twentieth-Century Literature. 3 credits.
Hebrew prose and poetry of the 20th century; literary analysis of selected readings of the major modern authors.
Prerequisite: HEB 1206 or equivalent.

2697; 2698 Contemporary Hebrew Literature. 3 credits.
Hebrew prose and poetry of the period since 1948; literary analysis of selected readings of the major authors.
Prerequisite: HEB 1206 or equivalent.

2709; 2710; 2719; 2720; 2729; 2730; 2739; 2740 Topics in Hebrew Literature. 3 credits.
Each semester examines a specific area, such as literature of the Holocaust; themes in Agnon and Hazaz; war and peace in contemporary Israeli literature; the portrayal of the Arab in Israeli literature; Biblical themes in Israeli literature; the kibbutz in Israeli literature; Zionism in Hebrew literature.
Prerequisite: HEB 1206 or equivalent.

2801 through 2899 Studies in Individual Authors and Their Works. 3 credits.
Prerequisite: HEB 1206 or equivalent.

4901, 4902 Independent Study.
Meet with the Yeshiva College academic dean.

4931; 4932 Selected Topics. 3 credits.
Assigned topics, regular conferences, and a report.
Prerequisite: permission of the instructor.

4950 Bachelor's Thesis. Nine hours. 3 credits.
Independent work, under faculty guidance, in an area of Hebrew literature with an historical-analytical or in-depth critical approach.
Prerequisite: senior status and a major in Hebrew.

HISTORY (HIS)

Major: Yeshiva College

HIS 1001; 1002 and an additional 24 credits in HIS courses, with not less than 6 in courses numbered 2000–2599. With the permission of the cluster advisor, up to 6 credits in Jewish history (in excess of those used to meet the Jewish Studies distribution requirement) may count toward the major. Cluster advisor: Dr. H. Kosak.

Minor: Yeshiva College

HIS 1001, 1002 and 12 additional credits in HIS courses. Up to 3 credits in Jewish History (in excess of those used to meet the Jewish Studies distribution requirement) may be counted toward the minor. (Courses in Jewish History are listed under JHI).

1001; 1002 Western Civilization. 3 credits.
First semester: major themes in the cultural, political, and social evolution of the West from antiquity to the Reformation. Second semester: survey of European history from the age of absolutism to the end of the Cold War.

1120 Medieval Society. 3 credits.
History of European politics, society, and religion in the Middle Ages, from the 5th to the 14th centuries.

1140 The Renaissance and Reformation. 3 credits.
European thought and culture in the age of transition, from the 14th to the 17th centuries.

1148 Europe 1848–1900. 3 credits.
The industrial revolution and its economic, intellectual, political, and social impact on Europe.

1210 Early Modern Europe. 3 credits.
The 17th and 18th centuries: rise of the nation-state, first scientific revolution, the Enlightenment and its impact on political theory and religion.

1240 Europe in the Age of the French Revolution. 3 credits.
Social, political, and economic conditions in 18th-century France; the French Enlightenment and its revolutionary implications; the Revolution and its European impact; domestic and foreign policies of Napoleon.

1248 Modern Europe I. 3 credits.

1249 Modern Europe II. 3 credits.
Europe from 1900 to 1945. Imperialism, the First

World War, and the rise of Fascism.

1285 The Holocaust. 3 credits.
(Same as JHI 1485).

The emergence of modern anti-Semitism and racial ideology; Nazi implementation of the “Final Solution”; problem of the Judenrat; life in the ghettos and camps; Allied, Christian, and world Jewish reactions; resistance; post-Holocaust literary and theological reflection.

1400 Greek Civilization. 3 credits.

Political, military, social, economic, religious, and cultural history of Greece: the Bronze Age, the rise of tyranny, legendary and realistic Sparta, Athens and the triumph of democracy, the Persian Wars, the Peloponnesian War, the Periclean age, the hegemony of Sparta and Thebes, the rise of Macedonia and the charismatic Alexander the Great.

1410 Roman Civilization. 3 credits.

Political, military, social, economic, religious, cultural, and legal history of Rome: the mystery of the Etruscans, the Roman kings, the Republic, the momentous struggle with Carthage, the century of Roman civil war, the development of the Roman Empire, the relationship between the rise of Christianity and the reasons for the decline and fall of the Empire, and the reasons why the Empire lasted so long.

1451 Modern France. 3 credits.

Political, social, and cultural history of France from 1815 to the present. The Revolutionary tradition and the search for political stability in the 19th century; colonialism, the “civilizing mission” and the Algerian War of Independence; intellectuals and the ideal of “engagement”; collaboration and resistance during World War II.

1461 Modern Germany. 3 credits.

Evolution of German society, culture, and politics from the Reformation to the collapse of the Berlin Wall.

1501; 1502 History of Britain. 3 credits.

Political, social, and economic history of Britain. First semester: Anglo-Saxon period to 1688; second semester: 1688 to the present.

1571 History of Russia. 3 credits.

Political and cultural history of Russia from the 5th century to the present, with emphasis on the 19th and 20th centuries.

1574 History of Poland: From Subjugation to Independence 1750–1989. 3 credits.

History of Poland from the mid-18th century to the East European “revolution” of 1989, which has led to the reestablishment of the country's independence and the attempt to create a pluralistic system based on the market economy.

1601 or 1601H; 1602 European Intellectual History. 3 credits.

First semester: the scientific revolution and the Enlightenment; the development of the public sphere; cultural origins of the French Revolution. Second semester: Romanticism and the critique of Enlightenment rationality; Hegel and Marx; modernism and the crisis of historicism.

1610 Ideas of History: Antiquity to Renaissance. 3 credits.

Examines a selection of historians from antiquity to the Renaissance—such as Herodotus, Josephus, Geoffrey of Monmouth and Machiavelli—in order to set them in their intellectual context and to ask questions about the nature of history. Prerequisite: HIST 1001 or permission.

1932H Freshman Honors Seminar II: Modernity. 3 credits.

2005; 2006 Survey of United States History. 3 credits.

Aspects of American history that have contributed to the shaping of American culture; evaluation of political, social, and economic trends in the light of changing ideals. First semester: colonial times to 1877; second semester: 1877 to the present.

2110 American Colonial History. 3 credits.

Origins and development of the English North American colonies from the early 17th century to the eve of the American Revolution. Contacts between Europeans and American Indians, Puritanism, slavery, economic growth, urbanization, relations with England.

(2130 The American Revolution and Constitution).

(2150 The United States: 1789–1850).

2170 The United States: 1850–1877. 3 credits.

Sectionalism, Civil War, and Reconstruction. Impact of slavery on American society. The “irrepressible” conflict. Military campaigns. The home front—North and South. The attempt to restructure Southern society and its failure.

2200 The United States: 1877–1941. 3 credits.

Industrialization and the rise of corporate capitalism; growth of cities; expansion of the state; Progressivism and the New Deal; overseas expansion and the emergence of the United States as a world power.

2250 The United States: 1941–Present. 3 credits.

Domestic politics and international relations of the United States from World War II to the 1980s. The origins and impact of the Cold War; the civil rights struggle; Vietnam War; Watergate and the imperial presidency; economic and social change.

2255 Great Depression - The New Deal. 3 credits.

Examination of the American economy of the 1920s and its weaknesses; the Depression and unemployment, and the measures undertaken by the New Deal to counteract their devastating impact; the emerging social forces that challenged the traditional political and social structures.

2301 American Cultural History. 3 credits.

Selected topics in 19th- and 20th-century cultural history, such as the myth of the frontier, the difference between “high” and “low” culture, working-class leisure activities, the rise of the film industry, the Jazz Age and the Harlem renaissance, the Depression, and the transformation of popular culture in the 1950s and 1960s.

2302 American Social History. 3 credits.

Selected themes in social history beginning with the market revolution and subsequent industrialization and its effects; the relationship between material life and the culture, values, and politics of diverse groups of Americans; working people, nascent middle class, women, African Americans, immigrants.

2401 History of the American South. 3 credits.

Southern society, politics, and culture from the colonial period to the present. Early settlements, the rise of slavery, plantation culture, sectional conflict, and the Civil War, Reconstruction, the Jim Crow era, poverty and economic development, the civil rights movement, the rise of the Sunbelt.

2510 History of American Foreign Policy. 3 credits.

US foreign policy from the American Revolution to World War II. Continental expansion, Monroe Doctrine, imperialism, Open Door, neutrality and World War I, isolationism, the road to Pearl Harbor. This course may count toward a political science major.

2530 or 2530H Immigrant Experience in America. 3 credits.

The experience of national and ethnic immigrant groups from early settlements in the colonies to the present; the economic, political, and religious rationale for migration; social and cultural traditions and expectations of the immigrants, their interaction with American society, and patterns of adaptation.

2540 The United States and Vietnam. 3 credits.

The Vietnam War, with attention to traditional Vietnamese history; the struggle against French imperialism; the Cold War, and US involvement in Vietnam; impact of the war on Vietnamese society; the war at home; peacemaking and withdrawal; the aftermath.

2545 American Politics and Culture in the 1960s. 3 credits.

The Vietnam War; the student, civil rights, and women's movements; rise of youth culture.

2560 History of Women in the United States. 3 credits.

Historical survey of women's experiences in the United States from the colonial era to the present; changes in the economic role of women; family life; changing ideals of womanhood; suffrage movement and feminism.

2580 American Minority History. 3 credits.

Role of ethnicity and race in US history from the colonial era to the present. The collective histories of selected groups and how these histories intersected and formed an integral part of the American experience.

2581 American Jewish History. 3 credits.
(Same as JHI 1573).

Major political, economic, and cultural developments from colonial beginnings to the present; the Jewish experience in its American historical context; the Jewish labor movement, rise of American Zionism, and role of American Jewry during the Holocaust.

2621 The History of New York City. 3 credits.

New York from colonial times to the present. The city's economy, people, and communities; building the city's infrastructure; local politics, the image of New York in American culture; contemporary economic and political trends.

3208 Eastern Europe in the 20th Century. 3 credits.
Covers period from World War I to the Collapse of Communism, in 1989. Political, social and economic development; impact of the Russian Revolution; the Second World War; Russian domination of the region, the post-Stalinist thaw; dissident movements; the causes of the revolution of 1989.

3221; 3222 The Middle East. 3 credits.
First semester: rise of Islamic civilization to 1800; Islam's origins and political, economic, and cultural nature; relationships with non-Islamic groups. Second semester: 1800 to the present; decline of the Ottoman Empire; challenge of the European states; Arab nationalism.

3300 History of East Asia. 3 credits.
Introduction to the history and culture of the major civilizations of East Asia, with particular focus on China and Japan. The development of traditional society and the growth and transformation of Confucian ideas and institutions. Covers the differing responses of China and Japan to the challenge of Western imperialism; impact of World War II on East Asia; and the Chinese Revolution.

4150 or 4150H Historiography. 3 credits.

4301 History of the Family. 3 credits.
The family as historical institution. Traces its changing forms, functions, and meanings from the mid-15th century to the present.

4691; 4692 War in Western Civilization. 3 credits.
The relationship of war, in its broader ethical, intellectual, religious, technological, and purely military aspects, to Western civilization; concept of the Just War, war crimes, terrorism, guerrilla warfare, nuclear war.

4695 Modernity. 3 credits.
(Same as POL 1895).
Interdisciplinary course on change and how individuals and societies respond to it. Topics may include traditional society; revolution, identity, and the state; technology.

4697 Nationalism in the Modern World. 3 credits.
The genesis and evolution of nationalism in 19th- and 20th-century Europe; contrasting styles of nationalist culture; the nation as an "imagined community"; the invention of tradition; anticolonial nationalism in Asia and Africa.

4901; 4902 Independent Study.
Meet with the Yeshiva College academic dean.

4930 Seminar. 3 credits.
In-depth coverage of selected topics. Primary materials analysis and research paper. For upper-level history majors and others with permission of the instructor.

HONORS (HON)

Once a student successfully completes 108 credits in residency on the Wilf Campus and fulfills the 11 requirements of the Jay and Jeanie Schottenstein Honors Program, his diploma will record his completion of the honors program as well as his graduation from Yeshiva College. Most of these 11 components are listed under the various clusters and programs. For instance, the first freshman honors seminar (H1) is normally listed as 1931H under the appropriate discipline within Humanities; the second (H2) is normally listed as 1932H under the appropriate discipline in Yeshiva College. Honors electives and summer experiences are likewise listed under their relevant disciplines. The two senior honors thesis courses and summer experiences are listed in this catalog and in course schedules under HON:

HON 1001H Culture in New York City. 5 credits.
Fifteen cultural events or venues in NYC: museums, plays, concerts, films, etc., five or six devoted to a "specialty" chosen by each student. Journal, final essay, poster, and presentation.

HON 4980H Senior Honors Thesis: Research. 3 credits.

Any student planning to write a senior honors thesis should speak with the director of the Jay and Jeanie Schottenstein Honors Program and with one or two potential mentors before the 10th week of the spring term of his junior year. The application and a preliminary proposal are due the first week of classes. The application and guidelines are available in the office of the director. If enough students write senior honors theses in related fields, a senior honors thesis-mentoring seminar may be set up under this course number or a closely related number.

HON 4981H Senior Honors Thesis: Writing. 2 credits.

A fully revised final draft is due by Monday of the 10th week of classes. Guidelines are available in the office of the director of the Jay and Jeanie Schottenstein Honors Program. If enough students

write senior honors theses in related fields, a senior honors thesis-mentoring seminar may be set up under this course number or a closely related number.

HUMANITIES (HUM)

Minor: Sy Syms School of Business
Fifteen credits chosen from ART, ENG, HIS, PHI. Maximum of two courses per aforementioned areas.

INFORMATION SYSTEMS (INF)

Major: Sy Syms School of Business
Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601.
Systems Administrative Track—seven courses: INF 2140, 3121, 3125, 3520, 3522, 3560, 3830; one chosen from INF 2125, 2128, 2130, 2132, 2226, 2250, 2251, 2255, 2610, 2822, 2823, 3123, 3514, 3831, 3832, 3834, 3835, and either BUS 4741 or one course chosen from ACC, ENT, FIN, MAN, MAR, REA; and INF 4970.

Minor: Sy Syms School of Business
Five courses chosen from INF 2125, 2128, 2130, 2132, 2140, 2226, 2250, 2251, 2255, 2610, 2822, 2823, 3121, 3123, 3125, 3514, 3520, 3522, 3560, 3830, 3831, 3832, 3834, 3835.

1020 Management Information Systems Overview. 3 credits.

Role and functions of modern management information systems in business organizations. Introduction to MIS and to computer usage, including hardware and operating systems, software, databases, distributed systems, and data communication; issues such as human factors in MIS, impact of MIS on organizations, and the use of MIS in other countries. Students receive hands-on experience using PC spreadsheet, word processing, and database software. Note: This course cannot be applied toward the INF major or minor. INF majors and minors must take INF 1030 instead.

1030 Introduction to Information Technology. 3 credits.

Core concepts relating to operating systems, networking, Internet architecture, programming languages, databases, spreadsheets, and presentation software. Students receive hands-on experience in both Microsoft Windows and Unix operating systems, and learn basic programming skills using Visual Basic and Application.

2125 C++ Programming for Business. 3 credits.
Object-oriented approach to solving business computer-programming problems; a thorough, practical learning experience of object-oriented programming methods using the C++ language. Reducing system development time; increasing productivity of application programmers; code reusability; lowering system maintenance costs.
Prerequisite: INF 1020.

2128 Java Programming. 3 credits.
Introduction to procedural and object-oriented programming using Java. Topics include data types, expressions, I/O, controls structures (selection, loops), arrays, basic searching and sorting algorithms, exception handling, programmer-defined classes, and object-oriented design concepts.
Prerequisites: INF 1030.

2130 Intermediate Java Programming. 4 credits.
Object-oriented development concepts and Java facilities used to build large, complex "real-world" applications. Topics include recursion, exception handling, inheritance—creating and using class inheritance hierarchies, interfaces, UML—class, sequence and activity diagrams, collections—lists, sets, trees, maps, hashables, iterators, javadoc comments, multithreading—synchronization, thread-safe programming, communicating between threads, inner classes, graphical user interface (GUI programming with swing) —layout managers, events, painting, applets, database programming with JDBC (Java Database Connectivity), reflection API, java beans, and JAR files.
Prerequisite: INF 2128.

2132 Advanced Java Programming. 3 credits.
Concepts and Java facilities used to create highly robust, fault-tolerant client/server applications that can scale to thousands of users. Many of these facilities are currently part of the J2EE package (Java 2 Enterprise Edition). Topics include application servers—components and EJBs (Enterprise Java Beans—not the same as "java beans")—session EJBs, entity EJBs, message queuing with JMS (Java Messaging Service) and message-driven EJBs—parsing XML, network programming—TCP/IP sockets, RMI (remote method invocation), JNDI (Java Naming and Directory Interface)—Web development with JSP and servlets, Java security mechanisms, Java Web services, and SOAP.
Prerequisite: INF 2130.

2140 Perl Programming. 3 credits.

Introduction to Perl programming for systems automation, database, network, and Web development. The Perl language is designed to allow for rapid development; its many uses range from automated systems-administration tasks to database and Web programming.

Prerequisites: INF 1030, INF 3560.

Recommended: INF 3520.

2226 Advanced C++ for Business. 3 credits.

Advanced programming techniques for designing object-oriented business applications with the C++ language. Topics range from basic objects as low-level data manipulation—such as linked list and sorting—to high-level graphical user interface objects, such as Windows. Application development from design to implementation stages.

Prerequisite: INF 2125.

2250 Internet for Business. 3 credits.

Review of Internet and client/server architecture; configuring a Web server; overview of various technologies used in the development of Web applications—HTML, CSS, XML, Macromedia Flash; introduction to server-side Web development; client-side vs. server-side development; introduction to JavaScript.

Prerequisite: INF 1030.

2251 Advanced Internet for Business. 3 credits.

(Same as ENT 2251).

Building on the material covered in Internet for Business I, provides a more complete understanding of the strategic implications of the Internet for business in the new millennium. Covers advanced HTML, domains and the hosting of Web pages, sophisticated Web development tools, and techniques for improving Web site design and effectiveness; maximizing the benefits of internal and external search engines; customer-integrated transaction-processing systems; intranets and extranets; on-line databases; an object-oriented approach to design; and the convergence of emerging technologies for use on the Internet.

Prerequisite: ENT/INF 2250.

2255 E-Commerce: Internet Marketing. 3 credits.

(Same as ENT/MAR 2255).

Comprehensive introduction to electronic commerce (EC from a MIS perspective). Covers the technical infrastructure, business impact, and global considerations surrounding the analysis and implementation of electronic commerce. Students are exposed

to a variety of resources and media, including relevant academic articles, product and service information from EC vendors and the trade press, and existing EC implementations on the Internet.

Prerequisites: INF 1020 or 1030, MAR 1001.

2610 Business Operating Systems. 3 credits.

Major operating-system environments that are implemented by all types of organizations; operating-system utilities such as file management, disk management, memory management, backup and restore, data recording, and data compression.

Hands-on experience in several operating systems.

Prerequisites: INF 1020 plus 2125, 2226, or one year of programming.

2822 Systems Analysis I. 3 credits.

Processes, techniques, and issues related to the analysis and design of business information systems. The system-development life cycle, project feasibility, cost/benefit analysis, input, output, and file design. Techniques such as data flow diagrams, entity relationship diagrams, process descriptions and Bachman diagrams. A CASE tool, Visible Analysis Workbench, is used to generate many of these constructs. ACCESS is used to illustrate prototyping of input and output documents.

Prerequisite: INF 1020 plus one year of programming.

2823 Systems Analysis II. 3 credits.

Applies the methods discussed in Systems Analysis I. Working in small groups, students analyze and design a computer-based information system. The project includes problem definition and data gathering; analysis of technological, operational, and economic feasibility; logical system design; file and database design; and input and output prototyping. Covers project management techniques including scheduling, monitoring and control, change control, and project reporting.

Prerequisite: INF 2822.

3121 Systems Administration I. 3 credits.

Picks up where INF 1030 and 3830, which address how to administer a single computer, leave off.

Addresses issues relating to the administration of the network as a whole. Essential disciplines, major areas of knowledge and understanding, and some practical applications of computer systems administration in the business environment.

Prerequisites: INF 3520, INF 3830.

3123 Systems Security. 3 credits.

Essential principles and practices of computer sys-

tems security: security organization, physical security, access control, communication security, cryptography, systems security, integrity, reliability, availability, security modes, risk management, network and Internet security, and operating systems security.

Prerequisites: INF 1020, INF 3121.

3125 Systems Administration II. 3 credits.

Builds on the information covered in INF 3121 and addresses advanced administration of the network, with special emphasis on security concerns. Also covers the administration of various other servers in the corporate environment, including e-mail, Web, PKI, and application servers.

Prerequisite: INF 3121.

3514 Telecommunications. 3 credits.

Communications networking in business, with emphasis on the issues and techniques for design and operation of wide-area networks (WANs), local-area networks (LANs), and remote-access service (RAS). Network topology, routing, circuit and packet switching, security, queuing, and network management. The role of information systems communication networks as they relate to business organizations and business decision-making processes.

Hands-on experience using appropriate application packages on networks.

Prerequisite: INF 1020 plus one year of programming.

3520 Network Design I. 3 credits.

Fundamental principles of computer networking and telecommunications, including foundation communications concepts, network architectures and protocols, signaling and encoding, media, transmission techniques, local area networks, security, and management. Addresses both technical and business/managerial considerations. Students work on a network design project.

Prerequisite: INF 1030.

Recommended: INF 3830.

3522 Network Design II. 3 credits.

Builds on the information covered in INF 3520.

Discussion of selected advanced topics in network design, such as advanced network security, wireless protocols, telecommunications, voice over IP, IPV6, etc.

Prerequisite: INF 3520.

3560 Database Design. 3 credits.

Design and administration of relational database systems. Topics include table structure and normalized forms, basic and advanced SQL, indices, views, database integrity constraints, stored procedures

and scripting, triggers, transactions, distributed databases, database recovery, entity-relationship diagrams, data warehousing, OLAP, 3-tier development, database security mechanisms.

Prerequisite: INF 1030.

3830 Computer Architecture. 3 credits.

Study of the hardware components of a computer: how they work and how the operating system controls them. Hands-on introduction to basic networking skills. Students build a computer from a kit and learn to troubleshoot hardware issues.

Prerequisite: INF 1030.

3831 End-User Computing in Business. 3 credits.

Role of the microcomputer as a stand-alone or as part of a host-based system; single-user and multiple-user micros; data communication requirements; impact on office automation; managerial and clerical decision support; remote data entry; evaluation, implementation, and management of end-user computing.

Prerequisite: INF 1020.

3832 Selected Topics: Web Design. 3 credits.

Students register for and maintain an on-line journal, register for a Web site and publish pages on the Internet; and learn to use the mechanics of HTML for creating form and content, MS FrontPages 2000 to facilitate work on a Web site, graphics software in conjunction with scanning images, and MS PhotoDraw to enhance the design of graphics.

Also covers design issues in Web-page authoring.

Prerequisite: INF 1020 or 1030.

3834 Management and Technology. 3 credits.

(Same as MAN 3834).

Examines information technology as a managerial resource. Extensive discussion and analysis of the organization's structural, cultural, and operational resources as they relate to the information technology function.

Prerequisites: INF 1020, MAN 1020.

3835 Advanced Visual Basic. 3 credits.

Building on INF 3831, includes database programming using Active Data Objects (ADO), the use of classes and collections in object-oriented programming, Active-X controls, User Interface Design in Windows, the Windows Application Programming Interface (API), and debugging and handling.

Prerequisite: INF 3831.

4970 Senior Research Paper or Project. Two hours. No credit.

An individualized approach to assisting each student in selecting a topic for, designing, and completing the senior research paper required for graduation. Students work one-on-one with faculty members in their respective disciplines, as well as under the supervision of a technical manager, and may work on an information systems project in conjunction with industry. Technical report and final presentation are required.
Prerequisite: senior status.

JAPANESE (JAP)

Cluster advisor: Dr. H. Haahr.

(1101,1102 Introduction to Japanese). 3 credits.
(1201,1202 Intermediate Japanese). 3 credits.

JEWISH EDUCATION (JED)

A joint bachelor's-master's program in Jewish Education is offered for Yeshiva College students together with Azrieli Graduate School of Jewish Education and Administration. Interested students should consult the Office of the Registrar.

JEWISH HISTORY (JHI)

Major: Yeshiva College

Jewish studies majors at these schools may concentrate in Jewish history. See the description of the Jewish studies major.

Minor: Yeshiva College

Two survey courses in Jewish history and 15 additional credits in Jewish history courses. Qualified upperclassmen may receive permission to take courses in Jewish history at Bernard Revel Graduate School of Jewish Studies. Consult the schedule to see the offerings available. Students who plan to do graduate work in Jewish history or major in Jewish studies with a Jewish history concentration are strongly advised to fulfill their Jewish history requirements at Yeshiva College as soon as possible.

1105; 1106 History of the Ancient Near East. 3 credits.

First semester: third millennium B.C.E. to 1300 B.C.E.; second semester: 1300 B.C.E. to 586 B.C.E.

1116 Biblical History and Archeology. 2–3 credits.
Archeological discoveries in Israel and their impact

on the study of Jewish history.
Prerequisite: junior status.

1200 Classical Jewish History. 3 credits.
History of the Jews from 300 B.C.E. to 500 C.E.

1235 or 1235H The Dead Sea Scrolls. 3 credits.
Archeological, historical, and literary aspects of the scrolls; their place in the development of the Hebrew language and Jewish thought.
Prerequisite: permission of the instructor.

1285 The Holocaust. 2–3 credits.
(Same as HIS 1285).

The emergence of modern anti-Semitism and racial ideology; Nazi implementation of the "final solution"; problem of the Judenrat; life in the ghettos and camps; Allied, Christian, and world Jewish reactions; resistance; post-Holocaust literary and theological reflections. Under the Eli and Diana Zborowski Professorial Chair in Interdisciplinary Holocaust Studies.
Prerequisites: JHI 1200, JHI 1300.

1300 Medieval Jewish History. 3 credits.
The Jewish people from the Gaonic period (500 C.E.) to 1550.

1322 Jews in Medieval Ashkenaz. 3 credits.
Jewish settlement in Italy; Charlemagne and the Jews in Franco-Germany; Rabbeinu Gershom and early Ashkenazic scholarship; the Crusades and the origins of medieval anti-Semitism, Rashi and the Tosafists; Church and the Jews in the 13th century; the Paris Disputation; Rabbi Meir of Rothenburg and his disciples—e.g., Rabbi Asher ben Yechiel and Rabbi Mordecai ben Hillel; the Black Death and its aftermath; Jewish life and scholarship in 15th-century Germany, with special emphasis on Rabbi Jacob Molin (Maharil), Rabbi Jacob Weil, and Rabbi Israel Isserlein; the transition of Ashkenazic life and scholarship to Poland.

1371 Jews in the Medieval Moslem World. 3 credits.
Judaism and Islam; the protected minority; Gaonate and Exilarchate; Karaism and false Messianism; Saadiah Gaon and medieval Jewish philosophy; the flowering of Jewish culture in Moslem Spain; the migration to Provence.

1400 Modern Jewish History. 3 credits.
The Jewish people from 1550 to modern times.

1401; 1402 Modern Jewish History I; II. 3 credits.
Rise and flowering of the Eastern European Jewish communities; Hasidism; the Enlightenment; the Emancipation and development of Western European Jewry; American Jewry; new religious currents; modern anti-Semitism and the Holocaust; Zionism and the founding of the State of Israel. First semester: 1600–1900; second semester: 1900–1948.

1403 Destruction of Polish Jewry. 3 credits.
Seminar analyzing the destruction of Polish Jewry during World War II.

1415 History of Zionism. 3 credits.
Rise and development of modern Jewish nationalism against the backdrop of contemporary Western civilization and the scope of Jewish history; writings of major Zionist ideologues; role of Zionism within the major Diaspora communities; impact of the rise of the Jewish state movement on the world political and diplomatic scene.

1451 The Jews in Eastern Europe I. 3 credits.
History of the Jewish people in Eastern Europe from the Early Settlement to the Third Partition of Poland (1795).
Prerequisite: JHI 1400 or equivalent.

1452 The Jews in Eastern Europe II. 3 credits.
History of the Jewish people in Eastern Europe since 1795.

1511; 1512 Modern Israel. 3 credits.
Comprehensive survey of the history of Israel from 1948 to the present; political, economic, and social developments; current problems.

1521S through 1562S Sephardic Communities. 2 credits.
Social, economic, and communal development of various communities of Sephardic Jews.

1521S Israel Since 1492.

1573 American Jewish History. 3 credits.
(Same as HIS 2581).
Major political, economic, and cultural developments from colonial beginnings to the present; the Jewish experience in its American historical context; the Jewish labor movement, rise of American Zionism, and role of American Jewry during the Holocaust.

1575; 1576 American Jewish History. 2 credits.
First semester: the Jewish community in the United States and its development from earliest times; immi-

gration and settlement; social, economic, and communal development; contribution to American civilization. Second semester: the modern and contemporary scene—American Jews and the Holocaust, State of Israel, civil rights movement, Russian Jewry, inner-city tensions.
Prerequisite: junior status or permission of the instructor.

1577 Contemporary American Jewish Issues. 2 credits.

The American Jewish community today against the backdrop of the pluralistic American society; analyses of current issues and problems, within the community and at its interface with other communities and cultures; guest lecturers.

1801 or 1801H History of Talmudic Literature. 3 credits.

The political, cultural, technological, and linguistic history of the Talmudic period and the textual history of the Babylonian Talmud as they bear on the interpretation of the text.

1829 or 1829H; 1830 or 1830H; 1831 or 1831H; 1832 or 1832H; 1833 or 1833H; 1834 or 1834H Jewish Intellectual History. 3 credits.

Sequence of courses focusing on major themes in the intellectual history of the Jews from the Second Commonwealth to the present; readings almost exclusively from primary sources. JHI 1829; 1830 covers the classical period; 1831; 1832, medieval period; 1833, early modern period; 1834, modern period.
Prerequisites: JHI 1200, 1300, 1400.

1836 or 1836H Historiography. 3 credits.

4901, 4902 Independent Study.
Meet with the Yeshiva College academic dean.

4950 Bachelor's Thesis. Nine hours. 3 credits.
Independent work, guided by faculty, in an area of Jewish history. An acceptable thesis will show diligent research in primary sources, scholarly organization, and clear exposition of material.
Prerequisite: Jewish History major and senior status.

JEWISH PHILOSOPHY (JPH)

Major: Yeshiva College

Jewish studies majors at these schools may concentrate in Jewish philosophy. See the description of the Jewish studies major.

Minor: Yeshiva College

Eighteen credits (including six in general philosophy), to be determined in consultation with the faculty.

Qualified upperclassmen may receive permission to take courses in Jewish philosophy at Bernard Revel Graduate School of Jewish Studies. JPH 5011 (Survey of Medieval Jewish Philosophy) and JPH 5012 (Survey of Modern and Contemporary Jewish Philosophy) are open to students with averages of 3.0 or higher; other courses require prior permission of the instructor. Consult the schedule for offerings.

1131; 1132 Introduction to Jewish Philosophy. 3 credits.

Philosophical foundations of Judaism; readings from classical and contemporary writers; major religious and national issues and philosophical concepts; first semester: basic beliefs; second semester: contemporary issues.

1133; 1134 Introduction to Jewish Philosophy. 3 credits.

Same as 1131; 1132, but for advanced students in Jewish studies.

1204 Jewish Ethics. 3 credits.

The moral philosophy of Judaism; individual and social problems in light of Jewish ethical norms and values; readings from selected texts, both medieval and modern.

1214 or 1214H Theories of Evil. 3 credits.

The problem and definition of evil as understood in Talmudic literature and medieval and modern Jewish philosophy.

1309 Jewish Eschatology. 3 credits.

Analysis of textual sources—ancient, medieval, and modern—dealing with eschatology in Judaism.

1441; 1442 History of Jewish Philosophy. 3 credits.

Problems and concerns of the major Jewish thinkers; role of philosophy within Judaism. First semester: through the medieval period; second semester: modern thought. Prerequisite: JPH 1131 or 1132 or 1133 or 1134.

1611, 1612 Medieval Jewish Philosophy. 2–3 credits.

Selected topics and readings from Albo, Bahya, Crescas, Yehudah Halevi, Maimonides, Saadiah, and relevant background study (Neo-Platonism, Kalam, Aristotelianism).

1626 Philosophy of Saadiah Gaon. 3 credits.

Analysis of the Hebrew text of the Emunot ve-De'ot, emphasizing Saadiah's treatment of philosophical problems; comprehensive study of Saadiah's philosophy from the historical perspective. Prerequisite: JPH 1131 or 1132 or 1133 or 1134. Recommended: JPH 1441.

1640 Philosophy of Yehudah Halevi. 3 credits.

Analysis of the Hebrew text of the Kuzari, emphasizing Halevi's views on the Jewish religion, Jewish history, the people of Israel, and preeminence of the Land of Israel; Halevi's philosophy and its relevance to contemporary Jewish life and thought. For intermediate and advanced students in Jewish studies.

1650 or 1650H Philosophy of Maimonides. 3 credits.

Selections from the philosophical works of Maimonides: Sefer Ha-Mada of Mishneh Torah, the Eight Chapters, the Guide for the Perplexed.

1804 Jewish Thinkers of the Nineteenth Century. 3 credits.

Leading exponents of Jewish thought in the 19th century, with emphasis on the works of Moses Mendelssohn, N. H. Wessely, S. D. Luzzatto, and S. R. Hirsch. Prerequisite: JPH 1131 or 1132 or 1133 or 1134.

1813 Modern Jewish Thought. 3 credits.

Introduction to the philosophical works of the great Jewish thinkers of the past two centuries. Selected readings.

1815, 1816 Lithuanian Jewish Thought. 3 credits.

Selections of representative religious thought from the writings of: the Tanya, the Gaon of Vilna, R. Hayyim of Volozhin, R. Israel Salanter and the Mussar movement, the Hazon Ish, Rav Kook, and R. Eliyahu Dessler.

1825, 1826 Hasidic Thought. 3 credits.

Selections from the writings of Baal Shem Tov, R. Yakov Yosef of Polonoye, the Maggid of Miezrich, R. Shnuer Zalman of Liadi, and R. Nahman of Brazlav.

1843 Contemporary Jewish Thought. 3 credits.

History and development of major currents in contemporary Jewish thought including Orthodoxy, Reform, Conservatism, and Reconstructionism.

1903 Belief and Religious Commitment. 3 credits.

Role of philosophy and the liberal arts (particularly literature) within a religious intellectual world view; medieval views of Jewish philosophers (Albo, Bahya, Saadiah); modern criticisms of medieval positions; reworkings of the relation between faith and reason in modern thought (Barth, Kierkegaard, Newman); Jewish critiques and defenses of secular studies in the modern world (Hirsch, Lamm, Lichtenstein, B. B. Liebowitz, Soloveitchik, Wasserman); literature and religious belief (Jewish and non-Jewish texts).

1905 Philosophy of Prayer. 3 credits.

Analysis of the philosophy of prayer and of the Jewish prayer book.

1907, 1908 Philosophy of Biblical Laws. 3 credits.

Examination of classical and modern sources for their conception of selected mitzvot relative to the Halakhah, their Biblical origins, and their root meanings in Jewish philosophy. For intermediate and advanced students in Jewish studies.

1909, 1910 Topics in Jewish Theology. 3 credits.

Mizvot, prayer, God and the soul.

1917 Problems in Jewish Philosophy. 3 credits.

Selected topics including faith and doubt, dogma, free will, Providence, the Holocaust, the State of Israel. Guided research in addition to classroom meetings. Prerequisite: 6 credits in JPH courses.

1921; 1922 Judaism and Culture. 3 credits.

Analysis of the concept of Torah im Derekh Eretz and comparison to other views on the relation of Torah and general culture. Sponsored by Jacques Schwalbe.

4901, 4902 Independent Study.

Meet with the Yeshiva College academic dean.

4931 or 4931H; 4932 or 4932H Selected Topics. 3 credits.

Analytical study of special topics, issues, and movements in Jewish philosophy. Prerequisite: JPH 1131 or 1132 or 1133 or 1134.

4933, 4934 Seminar. 3 credits.

Extensive reading, discussion of current issues in Jewish philosophy, and preparation of papers. For students considering graduate study in Jewish philosophy. Prerequisite: senior status.

4950 Bachelor's Thesis. Nine hours. 3 credits.

Independent work, under faculty guidance, in an area of philosophical study. An acceptable thesis will show diligent research in primary sources, scholarly organization, and clear exposition of material. Prerequisite: Jewish philosophy major and senior status.

JEWISH STUDIES (JST)

Major: Yeshiva College

MYP and BMP students:

Eight courses in Jewish studies (consisting of at least 22 credits) beyond those taken for the general education requirements. Five courses in an area of concentration, defined either in terms of a discipline or a chronological period. In addition, students must demonstrate competence in academic Hebrew.

Correlate: three courses beyond general education requirements in a discipline or area chosen by the student based on his particular areas of interest in Jewish studies and approved by the faculty.

No HES credits for study in Israel, MYP, or BMP may be counted toward the major. A maximum of two courses taken outside of YC may be applied to the major with the approval of the faculty.

Minor: Yeshiva College

MYP and BMP students:

Five courses consisting of at least 13 credits.

Minor: Isaac Breuer College

Thirty-three (33) credits from Isaac Breuer College transferred to Yeshiva College. No courses taken in the James Striar School may be counted toward the major at Yeshiva College.

JUDAIC STUDIES (JUD)

1000 Introduction to Judaism. 3 credits.

One-semester survey of the material covered in 1001, 1002.

1001, 1002 Basic Jewish Concepts. 6 credits.

Analysis of the fundamental principles of Jewish legal history and thought.

1010 Jewish Civilization. 3 credits.

Integrated, interdisciplinary study of Jewish history, Jewish philosophy, and Jewish law.

1023; 1024 Jewish Legal Values and Concepts. 3 credits.

1200 through 1299 Jewish Liturgy. History, philosophy, and laws of Jewish prayer.	1445, 1446. Women and Jewish law.	3 credits.	1499. The structure of the Seudah.	3 credits.	1587. The Holocaust—life of the Jews under the Nazis: such problems as the value of human life and human dignity. Prerequisite: permission of the instructor.	3 credits.
1201; 1202. History, order, and structure of the prayer book.	1447. Family Law (Hilchot Niddah); Jewish family purity sources—for advanced students.	3 credits.	1511, 1512 Development of Jewish Law. The halakhic process and the formulation of halakhic literature: from Biblical literature through the Mishnah and Talmud; codification and Responsa; survey of post-Talmudic literature.	2 credits.	1591 Topics in Jewish Civil Law. The following topics as treated in Jewish law: Eichmann defense (i.e., obedience to orders as a basis for exoneration from criminal responsibility); double jeopardy and entrapment in the attempt to control criminals; the obligation to prevent injury to other persons, and its limits.	3 credits.
1210. The weekday service.	1448. Family law: personal relationships.	3 credits.	1521; 1522 Introduction to Gaonic Literature. First semester: background of the Gaon and his authority; institutions and movements in the Gaonic period. Second semester: extensive reading in Gaonic literature, including She'iltot de R. Ahai, siddurim; Gaonic Responsa. For advanced students in Jewish studies.	2-3 credits.	1661 through 1666 Liturgical Music. Practical and structural aspects of Jewish music, ranging from basic music patterns (nusah) and cantillation to such specialized applications as Torah and Megillah readings; shofar blowing; workshops. Prerequisite: permission of the director, Philip and Sarah Belz School of Jewish Music.	3 credits.
1215. The Sabbath service.	1449. Marriage: issues and laws relating to dating and marriage—for advanced students.	3 credits.	1531; 1532 Readings in Maimonides. Selections from the legal codes and commentaries of Maimonides; analysis of the legal methodology and philosophy of law emerging from his works. For advanced students in Jewish studies.	3 credits.	1677S; 1678S Sephardic Liturgical Music. Occidental and Oriental chants and cantillation; liturgy, music, and relevant background studies. Prerequisite: permission of the director, Philip and Sarah Belz School of Jewish Music.	3 credits.
1220. The Festival services.	1451-1452. The Sabbath.	3 credits.	1571 through 1576 The Individual in Society. Contemporary social and political problems, such as ecology, poverty, welfare, and self-incrimination; emphasis on Jewish legal sources directly applicable to these issues.	3 credits.	1801; 1802 History of Talmudic Literature. First semester: history, structure, composition, and interrelationships of Tannaitic literature—Mishnah, Tosefta, and halakhic Midrashim; comprehension of its content in light of literary history; study of selected topics for illustrative purposes. Second semester: the Palestinian and Babylonian Talmuds. Prerequisite: junior or senior status.	3 credits.
1350 Introduction to the Kabbalah. Jewish mysticism; history and development of the Kabbalah; readings from the Zohar and related works on such topics as the Sefirot, Torah, the world, evil, and eschatology. Prerequisite: one semester of Jewish philosophy and sophomore status, or permission of the instructor.	1461, 1462. The Festivals.	3 credits.	1580 through 1589 Modern Jewish Problems. Analysis of halakhic problems that are currently of special interest; modern Responsa literature and its historical background. For advanced students in Jewish studies.	3 credits.	1807; 1808 Mathematical and Scientific Concepts in the Talmud. Analysis of Talmudic passages in light of modern mathematical and scientific ideas.	3 credits.
1370 Hasidism. History and major concepts, with readings from and analysis of classical texts such as the Baal Shem Tov, R. Jacob Joseph of Polonnoye, the Maggid, the Tanya, R. Nahman of Bratzlav, and R. Levi Yitzhak of Berdichev.	1470S through 1479S Sephardic Laws and Customs. Laws and customs of major Sephardic communities as compared to those of Ashkenazic communities.	3 credits.	1582, 1583. Medical ethics.	3 credits.	1820 through 1829 Mishnah. Text, with commentary of Bertinoro and other classical and modern commentators.	3 credits.
1381 Mussar. The primacy of ethical conduct and the process of shaping the ethical personality in Judaism, as viewed through the prism of the various personalities and schools of the Mussar movement; primary and secondary sources are used. For advanced students in Jewish studies.	1471S. Origins and history of Sephardic minhagim.	3 credits.	1584. Legal problems in the State of Israel.	3 credits.	1821; 1822. Selections from Mishnah and commentaries. Three credits for advanced students in Jewish studies. Open to intermediate-level students for 2 credits.	3 credits.
1400-1499 Jewish Laws and Customs. Jewish laws, customs, and concepts; their history and development.	1473S. The Sephardic life cycle.	3 credits.	1585. Problems related to marriage and personal status.	3 credits.		
1401, 1402. Introduction to sources, texts, terms, and basic concepts of Jewish law.	1474S. Sephardic Sabbath and Festival minhagim.	3 credits.	1586. Impact of technology on laws of the Sabbath and Festivals.	3 credits.		
1424. Visiting the sick and mourning.	1483, 1484. The Jewish life cycle: laws and customs of major ritual observances and ceremonies in Jewish life.	3 credits.				
1431-1432. Kashrut.	1485, 1486 Daily Life in the Home and Synagogue. The laws and customs of Tefillin, Kriat Hatorah Betsibbur, Berakhot Rishonot, Berakhot Aharonot.	3 credits.				
1440-1441. Home and family.	1489, 1490. Interpersonal relationships (such as ethics, charity, slander, revenge, usury).	2-3 credits.				
	1491, 1492. Topics in Jewish ethics—for advanced students.					
	1493, 1494. Ideological issues.					
	1497, 1498. The Land.					

1823. Tractate Berakhot: blessings and prayers.	4 credits.	Information in the library, as well as to find material for an assignment or term paper. Geared to curricular and personal interest.
1824. Tractate Megillah: Purim and related subjects.	2 credits.	
MANAGEMENT (MAN)		
1825. Tractate Pesachim: Passover.	2 credits.	Major: Sy Syms School of Business Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601; MAN 2110, and five courses chosen from MAN 2370, 2943, 2945, 2947, 2949, 2951, 2963, 3601, 3610, 3701, 3720, 3730, 3780, 3786, 3790, 3796, 3834, 3871, 4635, 4931 (18 credits); three courses chosen from ACC, ENT, FIN, INF, MAR, REA (9 credits); and MAN 4970.
1827; 1828. Tractate Avot: moral and ethical teachings.	2 credits.	
1835, 1836 Beginner's Talmud. Introduction to basic language and concepts of Mishnah and Gemara, for beginning students in Jewish studies.	3 credits.	
1841; 1842 Introduction to Talmud. Introduction to Talmudic text and commentaries. For intermediate and advanced students in Jewish studies.	3 credits.	Minor: Sy Syms School of Business Five courses chosen from MAN 2110, 2370, 2943, 2945, 2947, 2949, 2951, 2963, 3601, 3610, 3701, 3720, 3730, 3780, 3786, 3790, 3796, 3834, 3871, 4635, 4931 (15 credits).
1843; 1844; 1845; 1846 Selections from the Talmud. Selected Talmudic texts with medieval and modern commentaries; emphasis on methodology; beit midrash method of small-group study supplements lectures. For advanced students in Jewish studies.	3 credits.	1020 Principles of Management. 3 credits. The nature, functions, and responsibilities of management; various systems of managerial thought and decision making; formal and informal organization; systems concepts; organizational styles; control systems; organizational changes and adaptation.
1851, 1852 Selected Rabbinic Literature. Selections from fundamental rabbinic texts such as Ksot, Minhag Hinukh, Nesivot, Shev Shmatsa. Topics are related to the Talmudic tractate under study that year. Prerequisite: two years of Talmud.	2 credits.	2110 Organizational Behavior. 3 credits. Students develop an understanding and appreciation of the complexities of balancing organizational goals with human needs. Covers classical behavior, social systems, management science, and empirical theories of organization, as well as role theory, group dynamics, motivation, leadership, decision making, and communications. Prerequisite: MAN 1020.
1871; 1872 Selections from Midrash. Readings from aggadic literature. For advanced students in Jewish studies.	3 credits.	
1940 Jewish Communal Service. A practicum in working for a Jewish communal organization.	2 credits.	
4901, 4902 Independent Study. Meet with the Jewish Studies academic dean.		
4931; 4932 Selected Topics.	2–3 credits.	
4931 Judaism and Psychology.		
LIBRARY (LIB)		
1001 Information Skills. Knowledge and skills needed to locate specific infor-	1 credit.	

2943 Principles of Real Estate. (Same as REA 2943). Provides an overview of the field of real estate and prepares the student for the New York State Real Estate Salesperson examination. Topics include license law and regulations, law of agency, real estate instruments, estates and interests, real estate financing, land use regulations, introduction to construction, appraisal, human rights, fair housing, real estate mathematics, and environmental issues. Prerequisite: MAN 1020.	3 credits.	alternate forms of ownership, co-ownership, cooperatives, and condominiums. The most commonly encountered liens and encumbrances are reviewed, as well as how they are dealt with in the context of a title search and the recording act. Legal documents used in lending, development, and investment of real estate. Prerequisite: MAN/REA 2943.
2945 Real Estate Management. (Same as REA 2945). Review of residential, office, and retail properties and an introduction to the principles and practices of real estate management on a daily basis. Topics include forms of real estate ownership; budgeting and financial reports; marketing and leasing; labor relations; emergency procedures; federal, state, and city laws; and rent collection. Analysis of the financial and physical management functions. Students will learn how to create an operating budget on a cash basis and a capital budget. Prerequisite: MAN/REA 2943.	3 credits.	2963 Real Estate Investment. 3 credits. (Same as REA 2963). How to analyze and structure investments in residential and commercial properties in light of existing market conditions. Topics include investing in cooperatives, condominiums, apartment buildings, shopping centers, and industrial properties, as well as finding properties, negotiating deals, converting rental properties into cooperative/condominiums ownership, forming partnerships. Current tax law and its impact on the real estate investment. Prerequisite: MAN/REA 2943.
2947 Real Estate Appraisal. (Same as REA 2947). Theory, principles, and techniques for the appraisal of real estate property. Prerequisite: MAN/REA 2943.	3 credits.	3021 Entrepreneurial Law & Intellectual Property. 3 credits. (Same as BLW/ENT 3021). Choosing, forming and managing different types of business organizations, including sole proprietorships, joint ventures, franchises, business trusts, general and limited partnerships, LLPs, LLCs, and corporations. Trademark, copyright, patent, and trade secret considerations; labor law and employer-employee relations. Prerequisite: BLW 2021 or BLW 2111.
2949 Real Estate Finance. (Same as REA 2949). Examines the methods and techniques used by investors, developers, and lenders in evaluating income-producing real estate investment debt and equity investments. Students identify sources of capital and analyze the types of financing available in the real estate industry. Topics include mortgage instruments and notes, mortgage underwriting, the secondary mortgage market, and the construction loan. Prerequisite: MAN/REA 2943.	3 credits.	3501 Israeli Business Environment. 1 credit. (Same as ENT 3501). Introduction to high tech, venture capital in Israel; overview of Israeli business law, tax law, accounting law, entrepreneurship, cultural issues; investing in Israeli start-ups; leading corporations in Israel; job market in Israel. Prerequisite: MAN 1020.
2951 Real Estate Law. (Same as BLW/REA 2951). Survey of the basic principles of real estate property law for investment, lending, leasing, and development for both residential and commercial transactions. Students become familiar with terminology employed in describing various property interests, and with legal concepts involved in the acquisition, construction, leasing, financing, and sale of real estate property and real estate projects, including	3 credits.	3601 International Business. 3 credits. The environment of international business. Problems, policies, and operations of multinational corporations, with a focus on global logistics and production planning, alternative forms of ownership, and methods of control. Prerequisite: MAN 1020.
		3610 Health Care Management. 3 credits. Introduction to the functional role of the health services manager in various organizational settings, uti-

lizing contemporary case studies. An overview of health care delivery systems in the United States, hospital administration on both the inpatient and outpatient sides, physician practice management, long-term and home health care, fundamentals of health care reimbursement, the impact of managed-care organizations, and strategic planning and marketing.

Prerequisite: MAN 1020.

3701 Business and Society. 3 credits.

The inter-organizational problems that confront the corporate system in its interrelationships with individuals, government, and the global society.

Corporate social responsibility, competition, employee relations, collective bargaining, and analyzing ethical and cultural issues.

Prerequisite: upper-class standing or permission of Sy Syms dean.

3720 Business Policy. 3 credits.

Capstone course integrating courses in business; defines and analyzes the formulation and implementation of corporate objectives and strategies; uses cases and/or computer simulations to develop policy skills.

Prerequisite: MAN 1020 and upper-class status at Sy Syms School of Business.

3730 Business in a Global Society. 3 credits.

Covers the key elements in the challenge facing policy makers as the United States positions itself to compete in the global marketplace. Managers facing international decisions make judgments that determine which countries flourish and which do not.

This course considers why some countries and their corporations have managed to outpace others and increase their power and influence in the world.

Prerequisite: senior status.

3780 Principles of Entrepreneurship. 3 credits.

(Same as ENT 3780).

New venture initiation and development; the practical approach to developing and implementing procedures and techniques for starting an enterprise.

Class discussions based on readings and case studies.

Prerequisite: MAN 1020.

3786 New Venture Planning. 3 credits.

(Same as ENT 3786).

Use of the business plan, the critical element of entrepreneurship, as a guide to the successful operation of a business venture. Students learn the essential ingredients necessary for an effective plan, select and present an enterprise that they are personally interested in,

and develop a persuasive written plan that can be used to attract financing, key employees, and mentors.

Prerequisite: MAN/ENT 3780.

3790 Managing a Growing Business. 3 credits.

(Same as ENT 3790).

Managing and enhancing an ongoing growth business organization, including establishing a management team, satisfying investors, and building loyal customers. Labor employment laws, merger and acquisition strategy, strategy for capital foundation, and business conflicts and resolutions.

Prerequisite: MAN 1020.

3796 Franchising, Licensing, and Distributorships. 3 credits.

(Same as ENT/MAR 3796).

Essential elements of franchising from the viewpoint of both franchiser and franchisee. Explores franchising opportunities and their planning and implementation. Discussion of licensing and distributorship as viable business ventures.

Prerequisite: MAN 1020.

3834 Management and Technology. 3 credits.

(Same as INF 3834).

Examines information technology as a managerial resource. Extensive discussion and analysis of the organization's structural, cultural, and operational resources as they relate to the information technology function.

Prerequisites: INF 1020, MAN 1020.

3871 Managing Fraud in the Workplace. 3 credits.

(Same as ACC 3871).

Covers all major methods employees use to commit fraud, why fraud is committed, how to deter fraudulent conduct, and how allegations of fraud should be investigated and resolved.

Prerequisites: ACC 1001, FIN 1001.

Prerequisite or corequisite: ACC 1002.

4635 Seminar in Business Ethics. 3 credits.

Organized around six practical but open-ended questions, this course examines the central role of ethics for business decision making. Presents the concept of corporate social responsibility from various theoretical perspectives, including Jewish values. Specific issues are discussed and evaluated. (May be used in place of BLW 2021 or as a MAN elective).

Prerequisite: junior or senior status.

4931 Seminar: Contemporary Problems in Business. 3 credits.

(Same as ENT 4931).

Today's business environment requires imaginative leadership to deal with the turbulent global marketplace. Top executives from leading multinational corporations present a general overview and discuss the corporate culture of their organizations, outline the competitive climate in their industries, and share their views of the ingredients needed to survive in today's rapidly changing economic environments.

Prerequisite: upper-class status or permission of Sy Syms dean.

4970 Senior Research Paper. One hour. No credit.

An individualized approach to assisting each student in selecting a topic for, designing, and completing the senior research paper required for graduation. Students work one-on-one with faculty members in their respective disciplines.

Prerequisite: senior status.

7721 Decision Making in Organizations I: A Theoretical Approach. 3 credits.

Interdisciplinary course (economics, organizational behavior, psychology) examining how decisions are made in organizations and how decision outcomes might be improved.

Prerequisites: ACC 3201, ACC 3601, graduate student status.

7722 Decision Making in Organizations II: A Practical Approach. 3 credits.

Students learn applied decision-making based on the theoretical issues raised in Decision Making in Organizations I. Course uses the case method of instruction to study a series of Harvard business cases appropriate for accounting students.

Emphasis on communication skills.

Prerequisites: ACC 3201, ACC 3601, MAN 7721 and graduate-student status.

MARKETING (MAR)

Major: Sy Syms School of Business

Business core (12 courses; 36 credits): ACC 1001, 1002; BLW 2021; ECO 1011, 1021, 1221; FIN 1001; INF 1020 or 1030; MAN 1020; MAR 1001; STB 1131, 1456 or 1601; MAR 3313, 3321, 3341, MAR 2501 or 2621, two courses chosen from 2210, 2255, 2410, 2415, 3315, 3325, 3331, 3345 (18 credits); three courses chosen from ACC, ENT, FIN, INF, MAN, REA (9 credits); and MAR 4970.

Minor: Sy Syms School of Business

Five courses chosen from MAR 2210, 2255, 2410, 2415, 2501, 2621, 3313, 3321, 3325, 3331, 3341, 3345 (15 credits).

1001 Principles of Marketing. 3 credits.

Marketing as a system for satisfying human wants; analysis of all levels, from producer to consumer; emphasis on planning for efficient use of marketing tools in the development and expansion of markets; principles, functions, and tools of marketing.

2210 Direct Marketing. 3 credits.

(Same as ENT 2210).

Selling directly to the consumer or business entity. Examines various aspects of direct marketing such as the use of catalogs, mail order, mailing-list selection, TV, radio, print, and telemarketing. Focuses on the management utilization of direct marketing strategy and implementation.

Prerequisite: MAR 1001.

2255 E-Commerce: Internet Marketing. 3 credits.

(Same as ENT/INF 2255).

The practical applications of e-commerce in the marketplace today, including both customer-to-business and intra-business interactions. Associated business models, security and firewalls protocols (authentication, encryption, SSL, X.509, LDAP), electronic payment protocols (SET, e-cash), collaboration/on-line catalogs, and the required network infrastructure (TCP/IP).

Prerequisites: INF 1020, MAR 1001.

2410 Sales Management. 3 credits.

(Same as ENT 2410).

A survey of the sales management field and analysis of sales force management. Organizing; staffing and training a sales force; directing sales force operations; sales planning; and evaluating sales performance.

Prerequisite: MAR 1001.

2415 Retail Management. 3 credits.

(Same as ENT 2415).

Starting, developing, and growing a retailing organization, from both entrepreneurial and professional managerial perspectives. How retailing enhances the marketing mix, improves the effectiveness of the distribution network, and dynamically evolves in conjunction with environmental factors.

Prerequisite: MAR 1001.

2501 Buyer Behavior. 3 credits.

How and why people behave as buyers—either consumer or industrial. A conceptual understanding of

buyer behavior. Applies the principles to marketing management, and helps students develop analytic capability in using behavioral research data and methodology.
Prerequisite: MAR 1001.

2621 Marketing Research. 3 credits.
Development of research design, from problem formulation to analysis and submission of proposals to management techniques such as experimental design, sampling, statistical analysis, and reporting. Cases are used in the application of marketing research to a variety of marketing problems.
Prerequisites: MAR 1001, STB 1131.

2941 Sports Marketing. 3 credits.
(Same as ENT 2941).
Examines how money and marketing help drive the sports industry. Tracks the foundation of sports marketing and how companies leverage sports to obtain sales goals. Covers professional, collegiate, amateur sports, and sporting goods companies. Industry professionals highlight what they do and the role that marketing plays in their careers.
Prerequisite: MAR 1001.

3313 Advertising Management. 3 credits.
The practice of advertising as affected by relevant behavioral science and management science theory; the decision-making process regarding advertising objectives, copy selection, media selection, and budget setting.
Prerequisite: MAR 1001.

3315 Interactive Advertising. 3 credits.
Fosters a better understanding of interactive communication in advertising, direct response, and sales promotion, and forms integrated promotional communication. Students develop creative and critical thinking skills necessary to participate in and contribute to the development of the interactive marketplace.
Prerequisites: MAR 1001, MAR 3313.

3319 Media Planning. 3 credits.
Role of media within the ad agency. In-depth overview of specific media channels (e.g., broadcast, radio, OOH/nontraditional, newspaper, magazine, online, direct mail) including terminology such as *CPM*, *CPA*, *CPL*, *reach*, *frequency*, *GRPs*, etc. Students identify specific information needed to build a media plan.

3321 Product Strategy. 3 credits.
Product strategy as part of the firm's overall strategy; management of product portfolio, product life

cycles, pricing, promotion, introduction, positioning, improvements, and deletion.
Prerequisite: MAR 1001.

3325 Sales Promotion. 3 credits.
The increasing use of sales promotion in the marketing program represents a change in fundamental, strategic decisions regarding how companies market products and services. This course utilizes a managerial approach to sales-promotion campaign development with an emphasis on sales-promotion strategy as a component of the total marketing mix. Consumer promotion and event marketing are analyzed as important elements. Topics include sales promotion objectives, consumer sales promotion tools (e.g., samples, coupons, premiums, contests and sweepstakes, refunds and rebates), and trade sales promotional tools (e.g., trade allowances, displays and point of purchase), sales training, trade shows, and measurement and evaluation of sales promotions. Students have an opportunity to develop a sales promotion campaign.
Prerequisite: MAR 1001.

3331 Business-to-Business Marketing. (Formerly Industrial Marketing). 3 credits.
Overview of intercorporate marketing relationships leading toward building and maintaining long-term profitable strategic alliances. The similarities and differences between business and consumer marketing; channel development, evolution and control; vendor and value analysis; inventory policy and control; forecasting; impact of hard goods versus services on marketing decisions; marketing and promotion planning and implementation.
Prerequisite: MAR 1001.

3341 International Marketing. 3 credits.
Issues involved in entering overseas markets and conducting marketing operations on a multinational scale; identification and evaluation of opportunities in overseas markets and adapting marketing strategies to these markets consistent with their unique environments.
Prerequisite: MAR 1001.

3345 International Export Promotion. 3 credits.
The promotion mix from a global point of view, including the framework for managing advertising, selling, public relations, and sales promotion. Comparison and contrast with purely domestic promotional strategy is engaged through extensive case analysis. Importing and sourcing from outside the United States also is covered.
Prerequisite: MAR 1001.

3796 Franchising, Licensing, and Distributorships. 3 credits.
(Same as ENT/MAN 3796).

Essential elements of franchising from the viewpoint of both franchiser and franchisee. Explore the franchising opportunities and their planning and implementation. Discussion of licensing and distributorship as viable business ventures.
Prerequisite: MAN 1020.

4970 Senior Research Paper. One hour. No credit.
An individualized approach to assisting each student in selecting a topic for, designing, and completing the senior research paper required for graduation. Students work one-on-one with faculty members in their respective disciplines.
Prerequisite: senior status.

MATHEMATICS (MAT)

Major: Yeshiva College

GENERAL TRACK:

MAT 1412, 1413, 1510, 1520, 1521, 2105, and 12 additional credits in advanced MAT courses; also three correlate courses approved by the senior professor (PHY 1041–1042 R&L and COM 1300 are strongly recommended).

Students interested in actuarial mathematics are advised to take MAT 2461, 2462. For such students, ECO 1011, 1021 and COM 1300 are recommended correlates.

COMPUTER TRACK:

MAT 1412, 1413, 1510, 2105, and one of the following sequences approved by the senior professor: 1) MAT 1520, 1521; 2) MAT 2215, 2216; 3) MAT 2461, 2462. Also COM 1300, 1320, 1504, 1621, 2113, 2545 and one of COM 3563, 3610, 3640.

Minor: Yeshiva College

MAT 1412, 1413, 1510, 2105 and 6 additional MAT credits approved by the senior professor.

The normal sequence of courses in the first two years is 1412, 1413, 1510, and 2105. A mathematics placement examination is administered during the period of orientation. Students must take this test before registering for MAT 1160, 1412.

Courses in statistics are listed under STA and STB.

1160 Precalculus. Three hours of lecture. Two hours of recitation. 4 credits.
Number systems, functions, equations, and inequal-

ities; algebra of polynomials, exponentials, and logarithms; analytic geometry of lines and circles; vectors, trigonometry, and complex numbers.
Prerequisite: two years of high school mathematics and placement by examination.

1412, 1413 or 1413H Calculus I, II. Three hours of lecture. Two hours of recitation. 4 credits.
First semester: limits, continuity, derivatives; applications to graphing, maxima and minima, and related rates; mean value theorem; integration, fundamental theorem of the calculus, integration by substitution. Second semester: applications of integration in geometry and physics; methods of integration; improper integrals; indeterminate forms; numerical integration; sequences, power series and Taylor series, polar coordinates; parametric equations.
Prerequisite: three years of high school mathematics and placement by examination, or MAT 1160.

1422 or 1422H Great Proofs in Mathematics. 3 credits.

Landmark theorems from ancient to modern times. Geometry: Pythagorean theorem, Euler's formula, platonic polyhedra. Number Theory: irrational numbers, infinitude of primes, unique factorization, Pythagorean triples. Set theory: sets, relations, functions, infinite cardinal numbers, Schroeder-Bernstein theorem. Probability: expectation, conditioning, independence, the law of averages. Theory of computation: Turing machines, decidable and undecidable problems.
Prerequisite: Permission of the instructor.

1504 Discrete Structures. Three hours of lecture. Two hours of lab. 4 credits.
Boolean algebra and predicate calculus; proof methods; sets, functions and relations; combinatorics; graph theory and algorithms; mathematical induction and recursion; probability and average case analysis of algorithms. (See COM 1504).
Prerequisite: three years of high school mathematics.

1510 Multivariable Calculus. 3 credits.
Vectors, vector functions and curves; functions of several variables, partial derivatives; multiple integrals, Jacobians; vector fields, line and surface integrals; theorems of Green, Gauss, and Stokes.
Prerequisite: MAT 1413.

1520, 1521 Advanced Calculus I, II. 3 credits.
Real numbers, limits, intrinsic properties of continuous functions, differentiability and integrability, uniform convergence, implicit and inverse function the-

orems, point-set topology, metric spaces, curves and surfaces.

Prerequisite: MAT 1510.

1540, 1541 Functions of a Complex Variable I, II. **3 credits.**

Analytic functions, Cauchy-Riemann equations, Cauchy integral formula, residue theory; conformal mappings, normal families, Riemann mapping theorem, Weierstrass theorem, applications.

Prerequisite: MAT 1510.

2105, 2106 Linear Algebra I, II. **3 credits.**

Systems of linear equations, Gaussian elimination, matrices, matrix algebra; vector spaces, linear transformations, similarity; inner product spaces; determinants; eigenvalues and eigenvectors, diagonalization; quadratic forms; canonical forms; complex vector spaces, spectral theory; applications.

Prerequisite: MAT 1412.

2215, 2216 Modern Algebra I, II. **3 credits.**

Basic concepts of modern abstract algebra: groups, rings, and fields, with illustrations and applications, particularly in elementary number theory and the theory of equations.

Prerequisite (with permission, corequisite): MAT 2105.

2251 Theory of Numbers. **3 credits.**

Divisibility, prime factorization, distribution of primes, linear and quadratic congruences, primitive roots, quadratic residues, quadratic reciprocity, Diophantine equations.

Prerequisite: MAT 1413.

2461 Probability Theory. **3 credits.**

Probability spaces; combinatorics; conditional probability; discrete and continuous random variables; examples; density and distribution functions; independence; expectation and variance; moment-generating functions; law of large numbers; central limit theorem; applications. (See STA 2461).

Prerequisite: MAT 1510.

2462 Mathematical Statistics. **3 credits.**

Hypothesis testing, confidence intervals, regression analysis, correlation, t-distribution, time series analysis, analysis of variance, F-distribution. (See STA 2462).

Prerequisite: MAT 2461.

2471 Queuing Theory. **3 credits.**

Classification of queues; systems without memory;

systems with losses; queues as birth-and-death processes; embedded Markov chains; networks; diffusion and Monte Carlo approximations.

Prerequisite: MAT 2462.

2481 Topics in Actuarial Mathematics. **3 credits.**

Prerequisites: MAT 2461, MAT 2462.

2601 Differential Equations. **3 credits.**

Classification of differential equations; existence and uniqueness of solutions; initial-value problems, boundary value problems; power series methods, integral transforms; numerical algorithms and error estimation; topological methods.

Prerequisite: MAT 1413.

2611 Partial Differential Equations. **3 credits.**

Solution of parabolic, hyperbolic, and elliptic equations; initial and boundary value problems arising in physical situations such as heat conduction, wave propagation and gravitational potential; method of characteristics, separation of variables, Laplace and Fourier transforms.

Prerequisites: MAT 1510, MAT 2601.

2651 Numerical Analysis. **3 credits.**

Computer-assisted analysis of differential and integral equations; applications of polynomial interpolation and numerical linear algebra to differential equations; error estimation, rates of convergence, extrapolation, multistep and implicit methods, stability, stiffness, ill-posed problems, chaos, and difference methods. Special attention is given to the analysis of boundary value problems by finite-element methods.

Prerequisites: MAT 1510, MAT 2105 and familiarity with a programming language.

2701 Geometry. **3 credits.**

Embedded hypersurfaces; metrics, connections, and curvature; hyperbolic and spherical geometries; projective geometries; algebraic curves; applications to physics.

Prerequisite: MAT 1510.

2901 Mathematics of Finance. **3 credits.**

Discrete models for options, pricing derivatives, continuous stock price models, Brownian motion, the Black-Scholes formula, the Black-Scholes differential equation, hedging options, dynamic programming, bond price models, yield curves, forwards and futures, Keynes interest rate parity formula.

Prerequisite: familiarity with differential equations and probability.

3301, 3302, 3303, 3304 Topics in Modern Mathematics. **3 credits.**

Selected subjects in analysis, algebra, geometry, topology, and applied mathematics. Students may register for up to four semesters with permission of the senior professor.

Prerequisite: permission of the instructor.

4901 Independent Study.

4911 Guided Project.

Meet with the Yeshiva College academic dean.

4931, 4932 Seminar. **1–3 credits.**

Seminar in current problems and literature of mathematics.

Prerequisite: permission of the instructor.

4933, 4934 Problem Seminar. **1–3 credits.**

Techniques for solving problems in mathematics.

Recommended for mathematics majors.

Prerequisite: permission of the instructor.

MUSIC (MUS)

Major: Yeshiva College

PHILIP AND SARAH BELZ PROGRAM:

MUS 1111A, 1350–1351, 2111–2114, 2111L–2112L, plus an additional 13 MUS credits, including courses in each of the four areas within the discipline (music history and literature, music theory, musical performance, and applied study) as determined by the cluster advisor in consultation with each student. Students may count toward the major no more than 6 credits total in musical performance and applied study, with no more than 4 credits in applied study. Cluster advisor: Dr. N. Bartholomew. Music majors must take a keyboard proficiency exam upon entrance to MUS 2111. A student who does not pass the exam must take Keyboard Skills, MUS 2113L; and/or 2114L, depending on placement. The 1 credit for each semester of Keyboard Skills counts toward the maximum 4 credits in applied study.

Minor: Yeshiva College

MUS 1111A, 1350–1351, 2111–2112 plus an additional 6 credits from any of the four areas noted above. Students may count no more than 4 credits total in musical performance and applied study toward the minor.

1111A The Sense of Music. **2 credits.**

Insight into the art of music through guided listening

experiences that aim to develop aural perception, a historical perspective, an awareness of the formal processes of music, and some critical bases for esthetic discrimination; emphasis on the cultivation of helpful listening habits. No previous training in music is required.

1141 or 1141H The Interpretation of Text Through Sound. **3 credits.**

Texts, music, and their symbiosis.

1341 Music from Antiquity Through the Renaissance. **2 credits.**

Evolution of the forms and practices of Western music, in antiquity, the medieval and the Renaissance eras; the development of polyphony and secular art music, emphasizing the works of Dufay, Ockeghem, Josquin, Willaert, Gesualdo, Gabrieli, and Monteverdi.

Prerequisite: MUS 1111.

1350 Music in the Baroque and Classical Eras. **3 credits.**

The development of triadic music, tonality, and its forms in the Baroque era and continuing through the classical era. The growth of opera, concerto, fugue, sonata, and symphony; Western music from Monteverdi to Beethoven.

1351 Music in the Romantic and Modern Eras. **3 credits.**

Musical practices in the 19th and 20th centuries, beginning with Beethoven's monumental and universal works and their influence on later generations; the increase in chromaticism through the romantic era, the breakdown of tonality, and the harmonic-contrapuntal techniques and structural principles of 20th-century music; Western music from Beethoven to Adams.

1381 History of Jazz, Blues, and American Popular Music. **3 credits.**

African, Afro-American, and Euro-American musical genres in the 19th century after emancipation; the mutual cross-cultural assimilation of these genres that synthesized into new, uniquely North American popular and then art music in the 20th century. Jazz styles considered in depth include traditional (early jazz), swing, bebop, and modal and free jazz, emphasizing recordings of influential, innovative performers of each era.

1400 or 1400H The String Quartet. **3 credits.**

A genre course that provides insight into the art of music through guided listening experiences that aim

to develop aural perception, a historical perspective and understanding of the formal processes in string quartets since Haydn's Op. 33, and some critical bases for aesthetic discrimination. No previous training in music is required.

(1661 Survey of Operatic Literature).

1931, 1932 Musicology. 2–3 credits.
Seminars in special topics, one normally scheduled every other year after consultation with prospective students. The music of Bach; Haydn, Mozart, and classicism; Beethoven; Chopin and the piano; the age of Brahms; Schoenberg and Stravinsky; Jazz giants. Prerequisite: Music 2112 and at least one course in music history (1341, 1350, 1351, or 1381).

2111–2112 Diatonic Harmony. 3 credits.
Structural foundations of tonal music; principles of melodic construction, voice leading, harmony, and counterpoint. Prerequisite: ability to read music. Corequisite: an ear training laboratory (2111L–2112L) determined by placement exam at the beginning of the semester.

2111L–2112L Ear Training I and II. 1 credit.
Laboratory course designed to help students master the skills covered in MUS 2111, 2112. Emphasis on the development of relative pitch memory and recognition of interval, chord, and chord inversion. Students learn sight-singing from simple melodies and counterpoints, and practice elementary skills of chordal accompaniment at the keyboard. No prerequisites. Corequisite: MUS 2111–2112.

2113, 2114 Chromatic Harmony. 3 credits.
Continuation of 2111–2112. Principles of chromatic voice leading and chromatic harmony. Exploring those topics through model composition and analysis. The second semester also offers an introduction to post-tonal theory and analysis. Prerequisite: MUS 2112.

2113L, 2114L Keyboard Skills I and II. 1 credit.
Piano instruction for adult beginners; practice techniques to the level of Bach's Inventions and Clementi's Sonatinas.

2127, 2128 Advanced Theory and Composition. 1–2 credits.
Seminar for advanced students in music theory, musicology, or music composition. May include

MIDI studies and electric-acoustic techniques. Prerequisite: MUS 2114.

3461 through 3469 Musical Performance and Interpretation. 1 credit.
Music of selected composers rehearsed and analyzed to develop performance skills, an awareness of musical styles, and an approach to musical interpretation.

3461 through 3466 Classical Chamber Music (e.g., Bach, Schubert, Brahms). 1 credit.
See the cluster advisor before registering.

3467 through 3469 Jazz Ensemble. 1 credit.
By audition with the instructor.

4111; 4112; 4113; 4114 Applied Musical Studies. 1 credit.
Vocal or instrumental music lessons arranged by the Music staff. Literature, materials, techniques. A maximum of four credits may be taken in such courses.

Fee: on an individual basis, dependent on extent and nature of services provided. Prerequisite: permission of the cluster advisor. (The above courses replace 4901, 4902 found in other disciplines).

4901 Independent Study

4911 Guided Project
Research in music theory, music history, or musicology; music composition in a large form; or an extended performance recital on an instrument or voice. Meet with the Yeshiva College academic dean.

PHILOSOPHY (PHI)

Major: Yeshiva College
PHI 1100, 1600, and 4931; two courses chosen from 2170, 2420 or 2560; and 15 additional credits in PHI courses. In addition, a three-course sequence in a subject related to the major, chosen with the written approval of the cluster advisor. With his permission, up to 6 credits in Jewish philosophy (JPH) may count toward the major. Cluster advisor: Dr. Johnson.

Minor: Yeshiva College
PHI 1100, 1600; two courses chosen from 2170, 2420, or 2560; and 6 additional credits in PHI courses chosen with the written approval of the cluster advisor. Courses in Jewish philosophy are listed under JPH.

1010 or 1010H Philosophy and Propositional Logic. 3 credits.
Truth, semantic paradoxes, conditionals and probability, possible worlds, vagueness, logical consequence, and other crucial topics in philosophy.

1011 Introduction to Philosophy I. 3 credits.
Introduction to the problems of ethics, political and social philosophy, philosophy of religion, and esthetics.

1012 Introduction to Philosophy II. 3 credits.
Introduction to the problems of metaphysics, epistemology, and philosophy of science.

1100 Logic. 3 credits.
Introduction to formal logic.

1130 Symbolic Logic. 3 credits.
Advanced logic. Topics are selected from the following: 1) soundness and completeness proofs, 2) meticulous examination of Gödel's proof of his first incompleteness theorem, 3) modal logic, 4) axiomatic set theory. Prerequisite: PHI 1100.

1220 Philosophy of Language. 3 credits.
Theories of meaning, reference, and truth.

1320 Theories of the Mind. 3 credits.
Examination of rival conceptions of mind and self, and of differing explanatory models for human behavior.

1360 Theory of Knowledge. 3 credits.
Concepts of sense perception, memory, knowledge, and belief; principle of verifiability and problems of induction. Emphasis on contemporary views. Prerequisite: one semester of PHI.

1400 Philosophy of Science. 3 credits.
Fundamental conceptions of the empirical and mathematical sciences, such as explanation, law, theory, space, determinism, and reduction. Prerequisite: one semester of PHI, or one year of science or mathematics.

1550 Metaphysics. 3 credits.
Current metaphysical problems, with topics to be selected from the following: nature of metaphysical reasoning, problems of language and reference, mind-body problem, determinism and free will, causality, personal survival, and the philosophical concept of God. Prerequisite: one semester of PHI.

1600 Ethics. 3 credits.
Fundamental moral problems such as the place of pleasure and happiness in the moral life, and the relation between individual interests and social obligations. Readings from classical and contemporary works.

(1800 Philosophy of Art).

1932H Freshman Honors Seminar II: Modernity.

2170 Ancient and Medieval Philosophy. 3 credits.
From the pre-Socratics to Thomas Aquinas, with emphasis on Plato, Aristotle, Augustine, Boethius, and Aquinas.

2420 Modern Philosophy. 3 credits.
Continental rationalism and British empiricism, from Descartes to Hume.

2560 Philosophy in the 19th and 20th Centuries. 3 credits.
The chief contributions of Kant, Hegel, Schopenhauer, Nietzsche, James, Russell, Ayer, and Wittgenstein.

2640 Contemporary Analytic Philosophy. 3 credits.
Philosophical analysis, logical positivism, and ordinary-language philosophy; representative selections from Russell, Moore, Wittgenstein, Ryle, Ayer, and J. L. Austin. Prerequisite: one semester of PHI.

2650 Phenomenology and Existentialism. 3 credits.
Critical examination of these two related movements, with special attention to the works of Husserl, Heidegger, and Sartre.

3200 Classical Political Philosophy. 3 credits.
Theories of great political philosophers from Plato to Hegel; analysis of various interpretations of history, the nature of man, justice, liberty, and authority. (Not open to students who have taken POL 1801). Prerequisite: one semester of PHI or POL 1001 or 1040.

3402 Philosophy of Law. 3 credits.
Fundamental questions about the nature and scope of law, grounds for legal obligation, and the justification of particular legal practices, such as punishment.

4901 Independent Study.

4911 Guided Project
Meet with the Yeshiva College academic dean.

4930 Selected Topics. 3 credits.
Special topics, issues, and movements in philosophy.
Prerequisite: one semester of PHI and permission of the instructor.

4931, 4932 Seminar. 3 credits.
Intensive analysis of a philosopher, a philosophic concept, or a philosophic movement.
Prerequisite: one semester of PHI and permission of the instructor.

PHYSICAL EDUCATION AND ATHLETICS (PED)

The Cluster of Physical Education and Athletics offers an extensive program of credit-bearing courses, intercollegiate athletics, intramural athletics and recreational opportunities. Undergraduates are invited to participate in scheduled activities and/or in open recreation. All courses consist of theoretical and practical instruction in the skills, rules, strategies and appreciation of the particular sport or activity. Most courses require textbooks, strenuous activity, and regular participation. The Wellness and Fitness course, PED 2112, is the cornerstone of the program; therefore, students are encouraged to select Wellness and Fitness as the first required course. All undergraduates must successfully complete two credit-bearing courses before graduation.

Since each student may register for only one (1) PED course per semester, he should make every effort to complete the requirement as soon as possible, but certainly before his senior year.

No physical education course may be repeated for credit, with the exception of the courses that involve participation on a varsity team (basketball, cross-country, fencing, golf, soccer, tennis, volleyball and wrestling).

In all half (.5)-credit courses, the only grade assigned by the faculty is a P or F; in all one (1)-credit courses, the only grade assigned is an A, P, or F.

2112 Wellness and Fitness. .5–1 credit.
The following courses are normally one half credit. Courses that involve participation on a varsity team may be taken for one half or one credit.

1120 to 1129 Golf
1321 to 1329 Volleyball
1341 to 1349 Tennis
1421 to 1429 Basketball
1511 to 1519 Soccer
2111 to 2119 Physical Fitness
2311 to 2316 Track & Field
2317 to 2319 Cross-Country

2421 to 2429 Wrestling
2441 to 2449 Martial Arts
2461 to 2469 Fencing
3101 to 3109 Swimming

4401 to 4409 Physical Education Fieldwork. .5 credit.
The practice of leadership in implementing rules of play, officiating, and maintaining group control at athletic contests.

4631 to 4639 Corrective Physical Education. .5 credit.
Special prescribed exercises and activities for students who have physical disabilities or special medical problems.

PHYSICS (PHY)

Major: Yeshiva College
Thirty-two credits in physics courses. PHY 1041 R&L, 1042 R&L, 1120, 1810 and 17 credits in PHY electives, which must include at least three courses from the following: PHY 1221, 1321, 1510, 1621 and MAT 1412, 1413. MAT 1510 and 2105 are strongly recommended. Pre-engineering students who wish to fulfill the requirements for a physics major may satisfy up to nine credits with coursework, chosen with the approval of the senior professor, at Columbia University School of Engineering and Applied Science.

Minor: Yeshiva College
Twenty-two credits in physics courses.
All students either majoring or minoring in physics must consult with the senior professor for guidance as to an appropriate program.

1021R The Physical Universe. 2 credits.
Interdisciplinary course for non-science majors, emphasizing the main ideas in astronomy and the physics of motion, light, heat, and electricity. Not open to students who have completed any college course in physics.
Corequisite: PHY 1021L.

1021L The Physical Universe Lab. Two hours. 1 credit.
Laboratory experiments designed to help students master the principles covered in PHY 1021R.
Laboratory fee: \$40.
Corequisite: PHY 1021R.

1024C Great Ideas and Experiments in Modern Physics 3 credits.
Oriented toward non-science students, explores the great ideas that shaped physics during the early part of the 20th century: the theory of relativity and the quantum revolution. Hands-on experiments investigate the ideas of particle creation and destruction, nuclear reactions, magnetic resonance, atomic structure, and crystallography.

1026R Introduction to Astronomy: Planets. 2 credits.
History of astronomy; early models of the universe. The Copernican Revolution and the Newtonian Universe. The solar system, from terrestrial and Jovian planets to comets and asteroids. Possibility of organic life elsewhere in the solar system and beyond. Future evolution of our planetary system. Recently discovered planetary systems around other stars.
Corequisite: PHY 1026L.

1026L Introduction to Astronomy: Planets-Laboratory. 1 credit.
Hands-on experiments and computer simulations illustrating concepts introduced in the course. Observations of planets, stars, galaxies, and nebulae with the university's 12-inch telescope.
Laboratory Fee: \$50.
Corequisite: PHY 1026R.

1027R Introduction to Astronomy: Stars. 2 credits.
Birth, life, and death of stars: from protostars, main sequence, red giant stages to white dwarfs, neutron stars, and black holes. The Milky Way galaxy. Evolution of galaxies and their types. Hubble law and expansion of the universe. Big bang and inflation theory.
Corequisite: PHY 1027L.

1027L Introduction to Astronomy: Stars-Laboratory. 1 credit.
Hands-on experiments and computer simulations illustrating concepts introduced in the course. Observations of planets, stars, galaxies, and nebulae with the university's 12-inch telescope.
Laboratory Fee: \$50.
Corequisite PHY 1027R.

1031R, 1032R Introductory Physics-Lectures. Four hours of lecture. One hour of recitation. 4 credits.
Non-calculus-based version of PHY 1041R–1042R.
Corequisite: PHY 1031L, PHY 1032L.

1031L, 1032L Introductory Physics-Laboratory. Two hours of lab. 1 credit.
Non-calculus-based version of PHY 1041L–1042L.

Laboratory fee: \$40 per semester.
Corequisite: PHY 1031R, PHY 1032R.

1036 Physics Problems for Pre-Health. 1 credit.
Complement to PHY 1031–1032. Topics include modern physics, optics, fluid mechanics, and other subjects of interest to the health sciences. Emphasis on problem-solving techniques.
Prerequisite: PHY 1031, PHY 1032.

1041R, 1042R General Physics-Lectures. Four hours of lecture. One hour of recitation. 4 credits.
Introduction to Newtonian mechanics for particles, systems of particles, and rigid bodies. Notions of fluid mechanics and elasticity. The physics of waves and geometrical and physical optics. Theory of gravitation. Theory of electricity and magnetism. Direct current and alternating current circuits. The Maxwell's equations.
Prerequisites or corequisites: MAT 1412, MAT 1413.
Corequisite: PHY 1041L, PHY 1042L.

1041L, 1042L General Physics-Laboratory. Two hours. 1 credit.
Laboratory experiments designed to help students master the principles covered in PHY 1041R–1042R. Covers mechanics, heat, optics, elasticity, electricity, circuits, and magnetism.
Laboratory fee: \$40 per semester.
Corequisite: PHY 1041R, PHY 1042R.

1041H, 1042H Honors General Physics. 4 credits.
Complements 1041R, 1042R. Lectures with an honors recitation section and/or honors laboratory section.

1110 Waves and Optics. 3 credits.
Introduction to normal modes in discrete and continuous systems, linearization, basic Fourier analysis, and applications. Traveling waves on strings, sound waves, introduction to electromagnetic waves. Wave reflection, refraction, and partial transmission. Doppler effect. Waves on transmission lines and characteristic impedance. Group velocity, pulses, wave packets, Fourier integral, bandwidth theorem. Elements of geometrical optics. Fermat's principle. Physical optics: interference, diffraction, limit of resolution, applications.
Prerequisites: PHY 1041, PHY 1042.
Corequisite: MAT 1510.

1120 or 1120H Introduction to Modern Physics. 3 credits.
Introduction to Einstein's theory of relativity. Time dilation and length contraction. $E=MC^2$. The great

experiments that shaped 20th-century physics. The blackbody radiation. The basis of kinetic theory. Quantum theory and Bohr's model of the atom. Waves of matter, wave-particle duality and the uncertainty principle. Schrodinger's equation. Prerequisites: PHY 1041, PHY 1042.

1221 or 1221H Classical Mechanics. 4 credits. Particle motion in space, time or velocity-dependent potentials. Damped and driven oscillations and resonances. Elements of nonlinearity and chaos. Non-inertial reference systems. Motion relative to the Earth. Central forces. Planetary motion. Orbital dynamics. Prerequisites: PHY 1041, PHY 1042. Recommended: MAT 1510.

1222 Advanced Mechanics. 4 credits. Systems of particles. Variable mass. Collision theory. Lagrangian mechanics. Constraints. Variational calculus and Hamilton's equations. Rotations of rigid bodies in two and three dimensions. Euler's equations. Tensor analysis. Small coupled oscillations and normal coordinates. Fluid mechanics. Viscosity. Relativistic mechanics. Prerequisites: PHY 1041, PHY 1042. Recommended: MAT 1510, MAT 2105, PHY 1221.

1222B Mechanics for Engineers II. 4 credits. Same as PHY 1222 with added material in mechanics designed specifically for pre-engineering majors. Statics. Methods of analysis of trusses. Cables under loads.

1321 Electromagnetic Theory. 3 credits. Review of vector calculus. Electro- and magnetostatics, multipole expansions, time-dependent fields. Development of Maxwell's equations. Laplace and Poisson equations, boundary value problems. Electromagnetic wave equation, plane waves in a vacuum. Poynting vector, "blue sky law." Microscopic and phenomenological theories of dielectric and magnetic materials. Resistors, capacitors, inductors, and their uses in circuits, transformers; generalized forces on charges in electromagnetic fields. Prerequisite: PHY 1042 (or PHY 1032 with permission of the instructor). Corequisite: MAT 1510 or equivalent.

1322 Electromagnetic Theory II. 3 credits. Relativistic transformation of fields and covariance of Maxwell's equations. Polarizability tensor, electrodynamics in matter. Electromagnetic radiation by accelerating charges; Lienard-Wiechert potentials, multipole radiation, bremsstrahlung, synchrotron

radiation, applications to astrophysical sources. Antennas. Electromagnetic wave propagation in matter. Electromagnetic basis of physical optics. Fresnel equations, Kirchoff diffraction theory. Wave-guides and cavity resonators. Prerequisite: PHY 1321.

1401 Introduction to Solid State Physics. 3 credits. A survey of the properties of condensed matter. Classification of crystalline lattices. Elements of crystallography. Cohesive forces in solids. Vibrations of crystals. Quantization. Debye and Einstein theories of phonons and thermal conductivity. Free electron theory of metals. Bloch functions and band theory. The Fermi surface. Semiconductors. Survey of advanced topics: excitations in lattices (plasmons and polarons), superconductivity, magnetic materials and models, theory of crystalline defects and alloys. Prerequisite: PHY 1120.

1510 Elements of Thermodynamics and Statistical Mechanics. 3 credits. The laws of thermodynamics. Entropy. Equations of state. Phase transitions. Thermodynamic potentials. The third Law. Distribution functions. Theory of ensembles. Statistical formulation of temperature. Quantum and classical ideal gasses. Electronic conductance. Bose-Einstein statistics: phonons, Planck's Law, Bose condensation. Prerequisites: PHY 1041, PHY 1042.

1520 Advanced Statistical Mechanics. 4 credits. Gibbs theory of ensembles. Quantum statistics. Superfluidity. Quantum transport. Virial expansions. Magnetic systems and the Ising model. Theory of phase transitions. Ideas of the renormalization group. Random walks, accretion and percolation phenomena. Complexity and self-organization. Non-equilibrium statistical mechanics. Boltzmann's equation.

1621 or 1621H Introduction to Quantum Mechanics. 3 credits. Wave-particle duality; solutions of Schrodinger equation in one dimension for square well and barrier potential, harmonic oscillator, and rigid rotator with fixed axis; observables, expectation values, uncertainty relations; wave packets. Applications to quantum wells and superlattices, molecular beam epitaxy and scanning tunneling microscopy. Prerequisite: PHY 1120.

1622 Advanced Quantum Theory. 3 credits. Perturbation theory, approximations; solution of

Schrodinger equation for the hydrogen atom; Pauli exclusion principle, electron spin; atomic spectroscopy and second quantization. Prerequisite: PHY 1621.

1724 Electronics. 2 credits. Electronic devices and their use in power supplies, audio and radio frequency amplifiers, operational amplifiers, and instrumentation circuits. Electrochemical and biomedical applications; generation, processing, and analysis of signal waveforms related to speech, music, optical, and biophysical phenomena, and radio and television broadcasting. Prerequisite: PHY 1032 or 1042 R&L.

1810 or 1810H, 1820 Intermediate Experimental Physics I, II. (Formerly PHY 1801L, 1802L). One hour of lecture. Three hours of lab. 2 credits. Experimental exercises in techniques of modern experimental physics and engineering. Covers the fields of mechanics, analog communication electronics, transmission lines and wave-guides, physical and fiber optics, atomic spectroscopy, nuclear statistics, nuclear spectroscopy, interferometry, and laser physics. Recent examples: impedance divider, gravitational acceleration, thermocouple junction, microwave optics, mechanical phonons, Millikan's experiment, dielectric constant of water, Stephan-Boltzmann law, radioactivity and Poisson statistics, Michelson interferometer. Laboratory fee: \$50 per semester. Prerequisites: PHY 1041, PHY 1042 (or PHY 1031, PHY 1032 and permission of the instructor).

1830 Advanced Experimental Physics. (Formerly 1803L). Four hours of lab. 2 credits. A selection of independent projects designed to prepare students for contemporary research in physics. Recent examples: statistics of discharges, temperature dependence of conductivity, Einstein temperature, and the Hall effect. Laboratory fee: \$50 per semester. Prerequisites: PHY 1810, PHY 1820.

2255R, 2256R Biophysics-Lectures. 2 credits. Thermodynamics of the body, pressure, hemodynamics, nerve cells, transmission of signals, electrocardiography, transport phenomena, diffusion, osmosis, radiation, production and use of X-rays, nuclear medicine, physics of the eye and ear, exponential growth and decay, measurement, instrumentation. Prerequisites: PHY 1041, PHY 1042, BIO 1011R, BIO 1012R.

2255L, 2256L Biophysics-Laboratory. Two hours. 1 credit. Experiments to accompany 2255R, 2256R. Laboratory fee: \$50 per semester. Corequisites: PHY 2255R, PHY 2256R.

2601, 2602 Special and General Relativity. 3 credits. Einstein's special and general theories of relativity; underlying physical and mathematical concepts; formulation of Einstein's theory of gravitation; mathematical structure, observational tests, exact and approximate methods of solution; problem of gravitational radiation; theory of motion of ponderable bodies. Prerequisites: PHY 1120, PHY 1221.

3301 or 3301H Computational Methods in the Physical Sciences. 3 credits. Basic use of symbolic logic software and exploration of different areas of physics through numerical and computational techniques, possibly including random-walk models, accretion phenomena, Monte Carlo methods in statistical physics, cellular automata, complexity, chaos, and planetary motion. Methods of interpolation, rates of convergence, projection methods, boundary problems and singular perturbation methods.

4901, 4902 Independent Study.

4911 Guided Project. (Variable credit). Independent individual research projects done under the guidance of a physics faculty member.

4991 or 4991H The New Physics and Astronomy. 3 credits. Review of the new problems and areas that have reshaped physics in the last 30 years: theory of chaos, the quark and the Standard Model, the new cosmology, and the inflationary universe. Physics of scales and the renormalization group. The quantum fluids, and superconductivity and superfluidity. The new theory of complexity, quantum transport. Prerequisites: PHY 1041, PHY 1042, PHY 1120, or permission of the instructor.

POLITICAL SCIENCE (POL)

Courses in Political Science are grouped into the following categories:

AMERICAN POLITICS

1040 American Government and Politics
1092 Fundamentals of Political Economy

1100 State and Urban Politics
 1200 American Congress and Representative Institutions
 1210 Media and Politics
 1245 Public Policy
 1250 State and Society
 1260 Urban Politics
 1441 Political Parties and Political Behavior
 1460 American Presidency
 1600 American Constitutional Law
 1650 Civil Liberties
 1825 Democracy
 1900 Public Administration

COMPARATIVE POLITICS

1310 The European Union
 1320 Political Development
 1340 The Middle East
 1364 Russian Politics
 1370 Eastern Europe
 1430 Pacific Rim
 1895 Modernity

INTERNATIONAL RELATIONS

1503 International Politics
 1510 American Foreign Policy
 1520 Great Powers
 1540 International Law

POLITICAL THEORY

1700 Empirical Research Methods
 1801 Classical Political Philosophy
 1802 Contemporary Political Ideologies
 1810 Modern Political Philosophy
 1811 Contemporary Political Theory
 1820 Contemporary Political Philosophy
 1862 American Political Thought
 1895 Modernity
 1896 Postmodernity

Major: Yeshiva College

Thirty-three credits. Required courses: POL 1001, 1040 plus one course from each of the above groups. The remaining five courses are electives within POL.

Minor: Yeshiva College

Eighteen credits. Required courses: POL 1001 or 1040 plus one course from each of the above groups. The sixth course is an elective within POL.

1001 Fundamentals of Political Science. 3 credits. Meaning, principles, and major fields of political science; development of the state; civil and political

rights; law and the judicial process; theories of the state such as democracy, socialism, communism, fascism; international relations.

1002 or 1002H Fundamentals of Political Science. 3 credits.

Designed to familiarize the beginning student with research objectives, analytical concepts, and research tools, this course provides assistance in learning how to think like and do the research work of the political scientist. Key component is an original project based on empirical research. Students who have taken POL 1001 may register for POL 1002 as a sequence course, but may not register for POL 1001 after taking POL 1002. For students taking both POL 1001 and POL 1002H, the honors course (1002) counts as a POL elective.

1040 American Government and Politics. 3 credits.

Major institutions and functions of the national government; relationship of political elites, minority groups, political parties, and other groups to these institutions; federal-state relations, domestic and foreign policy issues and policy making.

1091 through 1099 Problems in Politics. 3 credits.

Specialized subtopics of American politics, comparative politics, or international relations. Courses may be repeated, since topics vary each semester. Recent topics have included American ethnic politics, international conflict resolution, and the United Nations.

1092 Fundamentals of Political Economy. 3 credits.

Introduction to the spheres of human behavior and activity—politics and markets—that greatly affect our daily lives. Understanding of the major issues of political economy, such as inflation and poverty, and of policies that can be used to rectify the major problems of the day. Economic criteria applied in political judgment, and economic assumptions of policy makers.

Prerequisite: POL 1001 or permission of the instructor.

1095 or 1095H Hannah Arendt. 3 credits.

1100 State and Urban Politics. 3 credits.

Role and functions of state and local government in the American federal system; impact of political parties, bosses, interest groups, racial/religious minorities, and social classes upon the policy-making process; development of the megalopolis and contemporary urban problems.

Prerequisite: POL 1001 or 1040.

1200 American Congress and Representative Institutions. 3 credits.

The practice and theory of representation. Congress and the national interest. Congress and interest groups. Capitol Hill alignments; relations with the executive branch. Political behavior and policy making. The “Washington establishment.” Constitutional restraints and democratic legislation. Alternative and comparative legislatures.

Prerequisite: POL 1040 or permission of the instructor.

1210 Media and Politics. 3 credits.

Politics in the multimedia age; power of print and broadcast media to influence the democratic political process and the voting public; packaging candidates for TV; issues such as right to privacy, governmental secrecy and media; political bias in media; media accountability.

1245 Public Policy. 3 credits.

How policy makers make policy; agenda setting and policy evaluation; cost-benefit analysis; and moral valuation. Covers issues such as health care, Social Security, First Amendment freedoms, budgeting, hazards in the workplace, etc., as well as actors and sites: experts in regulatory agencies, elected officials in representative institutions, and citizens in elections. Social science and public policy. Improving the democratic process.

Prerequisite: POL 1001 or 1040 or permission of the instructor.

1250 State and Society. 3 credits.

The classic and contemporary debate about the proper role of government in society: conservative and liberal views on government regulation. Nature of the state and civil society. The welfare-regulatory state in America; state and environment; use of the state to promote prosperity; cross-national comparisons; regulation and the social construction of preferences.

Prerequisite: POL 1001 or 1040 or permission of the instructor.

1260 Urban Politics. 3 credits.

The contemporary city, its role and function in American politics; impact of political parties, bosses, interest groups, racial/religious minorities, and social classes upon the policy-making process, current policy issues; the impact of globalization on the city. Prerequisite: POL 1001 or 1040 or permission of the instructor.

1310 The European Union. 3 credits.

Development of the European Union as a regional “state”; EU as a new federalism; France and Germany as the EU’s power hub; Britain’s EU dilemma; the EU in the globalized market; security and foreign policy making; the EU as an international actor; EU-United States relations; EU expansion into eastern Europe; the EU and NATO; the EU and Russia; the EU and North Africa, Turkey, and the Middle East.

Prerequisite: POL 1001 or permission of the instructor.

1320 Political Development. 3 credits.

Meaning and process of political development; comparative analysis of selected African, Asian, and Latin American states; international political economy; role of International Monetary Fund (IMF) in political-economic development; great powers and the politics of development.

Prerequisite: POL 1001 or 1040.

1340 The Middle East. 3 credits.

Geopolitical and cultural characteristics of the “Middle” East; European historic legacy; rise of Zionism, Pan-Arabism and Pan-Islamism; political systems of Israel and selected Arab/Islamic states; Arab-Israeli conflict; political trends in the post-Cold War world order.

Prerequisite: POL 1001 or 1040.

1364 Russian Politics. 3 credits.

The rise and fall of the Soviet empire; emergence of the Commonwealth of Independent States (CIS); problems of democratization and privatization; the Yeltsin era, US–Russian relations after the Cold War; Russia as an international actor; Russia and China; Russia and Japan.

Prerequisite: POL 1001 or permission of the instructor.

1370 Eastern Europe. 3 credits.

1430 Pacific Rim. 3 credits.

Pacific Ocean states as the power hub of the 21st century, with emphasis on Japan and China. Globalization dynamic in East Asia and the “Asian Tigers”; impact of the rise of East Asia upon the United States, Canada, and Latin America; regionalization prospects in East and Southeast Asia; foreign policy trends of China and Japan; relations with the United States.

Prerequisite: POL 1001 or permission of the instructor.

1441 Political Parties and Political Behavior. **3 credits.**
American political parties; history, organization, functions, and sources of support; relationship between parties and pressure groups, and the influence both have on government policy.
Prerequisite: POL 1040 or permission of the instructor.

1460 American Presidency. **3 credits.**
The conception of the modern executive. Types of presidential power. The modern institutional and plebiscitary presidency. Presidential policy making. Operating a system of separate institutions sharing power. Patterns of presidential authority over American history. The current officeholder. How the growth of presidential power affects democracy.
Prerequisite: POL 1040 or permission of the instructor.

1503 International Politics. **3 credits.**
The nation–state system since World War I (national power, national interest, foreign policy formulation); the development of international relations from the League of Nations to the United Nations and present regional systems; the impact of modern weaponry; war and peace; globalization and the post-Cold War world order.
Prerequisite: POL 1001 or permission of the instructor.

1510 American Foreign Policy. **3 credits.**
How American foreign policy is made and implemented; the interrelationship of foreign and domestic policies; the military–industrial complex; the media and the policy-making process; objectives of American foreign policy; the United States as an international actor in the post-Cold War order; the UN and the United States.
Prerequisite: POL 1040 or permission of the instructor.

1520 Great Powers. **3 credits.**
Factors making a state a “great power”; regional and international relations between “core” and “peripheral” states; Japanese ascent and challenge; newly industrialized countries and the Great Powers; post-Cold War order building; the UN and Japan-USA-Europe triangle.

1540 International Law. **3 credits.**
The development of principles of public law governing the relations of states, and analysis of these principles; problem of individual responsibility; role of diplomacy, international organizations, and international tribunals; review of selected international law cases.
Prerequisite: POL 1001 or 1040.

1600 American Constitutional Law. **3 credits.**
The Constitution of the United States as developed primarily by judicial interpretation; role of the judiciary in the political process.
Prerequisite: POL 1040 or permission of the instructor.

1650 Civil Liberties. **3 credits.**
The freedoms of speech, press, and religion; the right to privacy; and the new equal protection as developed primarily through judicial interpretation.
Prerequisite: POL 1040 or permission of the instructor.

1700 Empirical Research Methods. **3 credits.**
Introduction to quantitative research methods used in the social sciences; development of research designs.
Prerequisite: POL 1001 or permission of the instructor.

1801 Classical Political Philosophy. **3 credits.**
Philosophical analyses of and propositions about political power that have shaped the Western political tradition in its anti-democratic and democratic variants; emphasis on Plato and Aristotle; development of the classical Greek (and Roman) tradition in medieval thinkers; Machiavelli (Renaissance) and Rousseau (Modern).
Prerequisite: POL 1001 or permission of the instructor.

1802 Contemporary Political Ideologies. **3 credits.**
Rise of ideology with mass politics; characteristics of ideology and its political function; modern revolutionary ideological movements such as liberalism, Marxism, and fascism; conservatism as an ideology; ideologies since the end of the Cold War; “New Politics” liberation movements and environmentalism; religious fundamentalism.
Prerequisite: POL 1001 or 1040.

1810 Modern Political Philosophy. **3 credits.**
Political thought in the 17th to 19th centuries. Theories of rights and property; moral agency; theories of state, justice, and civil society. English, French, and German liberalism: Hobbes, Locke, Rousseau, and Kant. Hegel's social theory. Marx's critique.
Prerequisite: POL 1001 or permission of the instructor.

1811 Contemporary Political Theory. **3 credits.**
The recent renaissance in the theory and philosophy of the polity, legal order, and economy. The increasing application of the results of contemporary analysis to solving difficult policy questions. How contemporary theorists reason and disclose the principles of political life. Theories of rights; general political principles; just distribution of social resources; and

modes of entitlement.
Prerequisite: POL 1001 or 1040 or permission of the instructor.

1820 Contemporary Political Philosophy. **3 credits.**

1825 Democracy. **3 credits.**
A survey of several major aspects of democracy in America. Who really rules? Wealth and power. Types of political power. Democracy's relationship to social justice; its social requisites and historical development. Democracy and the public philosophy. Pathologies of pluralism and possible remedies. Feminist and Marxist analyses. Advanced democracy in the future.
Prerequisite: POL 1040 or permission of the instructor.

1862 American Political Thought. **3 credits.**
Readings in classical and contemporary commentaries on the American political experience; analysis of historical and geographical factors shaping the American political mind and tradition; impact of religion from colonial times to the present; slavery, ethnicity and racism; anti-democratic thought in America; Vietnam as a watershed; contemporary issues.
Prerequisite: POL 1001 or 1040.

1895 Modernity. **3 credits.**
(Same as HIS 4695).
A history–political-science interdisciplinary course on the dominant characteristics, tensions, and problems of our revolutionary modern age. Change and how individuals and societies respond to it. Covers the French Revolution and the “new man” of modernity; the scientific establishment and new life choices; the atomic bomb and modern warfare; capitalism and anti-modern political ideologies; Western colonialism and its aftermath.

1896 Postmodernity. **3 credits.**
For postmodernists, Hiroshima and the Holocaust nullified the idea of progress that had dominated Western modern thinking since the Enlightenment. Without the idea of progress, how should we understand who we are? This course focuses on the post-modern critique of modernity and its alternative mode of analysis (deconstruction); the postmodern problematic of identity, otherness, moral agency, context and meaning; political issues like power, justice, democracy, postnationalism, postcolonialism.
Prerequisite: POL 1001 or 1895 or HIS 4695 or permission of the instructor.

1900 Public Administration. **3 credits.**
The process of implementing public policy/laws, with emphasis on American national government; contemporary theories of organization; styles of political management; internal bureaucratic politics; relations between administrators and politicians (e.g., Congress, the president) and between administrators and interest groups; political implications of the bureaucratic state.
Prerequisite: POL 1040.

4901 Independent Study.

4911 Guided Project
Meet with the Yeshiva College Academic Dean.

4921 Senior Thesis. **3 credits.**
Seniors majoring in political science are encouraged to write a senior thesis on a topic of their choosing. See the senior professor for details.

PRE-ENGINEERING

Students interested in a career in engineering have the option of majoring in pre-engineering at Yeshiva College or choosing from a variety of related majors, including chemistry, physics, mathematics, and computer science. Since the pre-engineering requirements listed below are preparatory for a career in engineering, a student choosing the first option completes the advanced work for this major at an engineering school, and will have satisfied the major requirements necessary for graduation from Yeshiva College only upon successful graduation with an engineering degree from an accredited engineering school.

Major: Yeshiva College

CHE 1045–1046 (lecture and laboratory); MAT 1412, 1413, 2105, 1510, 2601; PHY 1041–1042R&L, 1120 or 1621; COM 1300; ECO 1011. Additional electives, such as PHY 1221B, 1222B, 1321, 1510, and 1724, are recommended for specific fields in engineering. The university has combined plans with Columbia University. Under the 3-2 plan, a student who attends Yeshiva University for three years, maintains a 3.0 average, and receives the recommendation of the pre-engineering advisor is admitted to Columbia University School of Engineering and Applied Science as a junior. The student attends Columbia for two years; at the successful completion of the program, YU confers the bachelor of arts degree and Columbia confers the bachelor of science

degree. Under the 4-2 plan, for which a minimum 3.3 average is required, the student earns an appropriate bachelor's degree at YU in any of the other majors approved in Yeshiva College and, after two additional years of study at Columbia, receives the master's degree, bypassing the bachelor's degree in engineering.

Students in the combined plan must maintain registration at YU by filing a Leave of Absence form until they receive the BA degree. They must meet the same requirements for graduation as all students who spend three years in residence at the university.

Students interested in the pre-engineering options are urged to discuss their specific course of study with the pre-engineering advisor each semester prior to registration.

PRE-HEALTH PREPARATION

The following courses prepare students for admission to professional schools in such areas as medicine, dentistry, optometry, and podiatry: BIO 1011–1012 (C or R&L); CHE 1045–1046 (C or R&L); CHE 1213–1214 (C or R&L); MAT 1412; MAT 1413 or STA 1021; PHY 1041–1042 (R&L). These requirements may vary from professional school to professional school. Students should contact the pre-med advisor and review the regulations of each professional school they wish to enter in order to make sure they are satisfying particular admission requirements. In addition, the student must have a major in any other subject.

Accelerated programs saving the student a year in achieving a degree in dentistry, optometry, or podiatric medicine are offered in combined plans by Yeshiva University and the NYU College of Dentistry, SUNY College of Optometry, and the New York College of Podiatric Medicine, respectively. During the first three years of these programs, the student fulfills the above requirements. Upon receiving the recommendation of the Yeshiva College Office of the Dean, the student is admitted into the cooperating school and attends for four years, qualifying for degrees at both institutions. YU confers the bachelor of arts degree upon a student undertaking the combined plan at the successful completion of the fourth year of study.

Students in a combined plan must maintain registration until they receive the BA degree. They must meet the same requirements for graduation as all students who spend three years in residence at the university.

PRE-LAW

YESHIVA COLLEGE

In conformity with the statement on pre-legal education of the Association of American Law Schools, Yeshiva University strongly urges pre-law students to pursue a course of study that develops a) critical understanding of the human institutions and values with which the law deals; b) creative and systematic thought processes; and c) precise communication skills.

No specific major is required, since these objectives can be achieved within various academic disciplines.

PSYCHOLOGY (PSY)

Major: Yeshiva College

The following requirements are in effect for students beginning with the entering class of fall 1998. Thirty-four credits: PSY 1010, 1110, 2100C, 2150, 3800, 3804, STA 1021, and 12 additional credits in PSY courses.

A maximum of six independent study credits may count toward the major. Either PSY 3410 or 3430 may count toward the major or minor, but not both. Certain courses in other clusters may, with permission, count toward elective credits in the major.

Minor: Yeshiva College

Eighteen credits in PSY, including PSY 1010. STA 1021 may count.

Qualified upperclassmen may receive permission to take courses at Ferkauf Graduate School of Psychology.

1010 Introductory Psychology. 3 credits.

Basic facts and theories of the science of behavior: biological foundation, history, sensation and perception, conditioning and learning, personality, social behavior, intelligence, cognition, language, testing, deviant behavior; applications in the field of psychology.

1110 Developmental I: Child. 3 credits.

Biological, psychological, and social factors that enter into the development of children from birth to pre-adolescence; correlations between childhood development and formation of adult personality. Prerequisite: PSY 1010.

1113 Development of Language. 3 credits.

The nature of language and its development; phonology, syntax and morphology, reading; focus

on processes and course of normal development; pathological groups such as the deaf; language as a cognitive and communicative system.

Prerequisite: PSY 1010.

1120 Psychology of Exceptional Children.

(1124 Learning Disabilities).

1130 Developmental II. 3 credits.

Processes and problems of adolescence, adulthood, and old age; personality development in its relationship to cultural patterns.

Prerequisites: PSY 1010, PSY 1110.

1150 Psychology of Language. 3 credits.

Language comprehension and production; speech perception. Critical examination of linguistic theory, theories of language learning, language as a perceptual and cognitive process, brain mechanisms, reading, and language disorders.

Prerequisite: PSY 1010.

1301 Psychological Tests and Measurements. 3 credits.

Theory and method of measuring human behavior; construction and evaluation of tests of abilities, aptitudes, achievement, attitudes, and adjustment; ethical issues in testing.

Prerequisite: PSY 1010.

Pre- or corequisite: STA 1021.

1601 Theories and Systems. 3 credits.

Theory and theory construction in psychology; constructs and models; major theories and present state of theory and systematic orientations.

Prerequisite: PSY 1010.

1602 Historical Perspectives. 3 credits.

Theoretical and methodological problems of contemporary psychology; case histories tracing the development of research from origins to contemporary status in such fields as psychophysics, biological foundations, perception, learning, personality, and social psychology.

Prerequisite: PSY 1010.

2100C or 2100H Experimental Psychology. Two hours of lecture. Three hours of lab. 4 credits.

Training in the problems, methods, and evaluation of experimental research in psychology. Students perform individual experiments, prepare reports of results, and are introduced to the literature of experimental psychology.

Laboratory fee: \$20 per semester.

Prerequisites: PSY 1010, STA 1021.

(2101C, 2102C Experimental Psychology I and II).

2103C Advanced Experimental Psychology. Two hours of lecture. Three hours of lab. 4 credits.

Chief problems, methods, and results of experimental psychology. Representative experiments on animals and humans are carried out and evaluated in light of modern theory.

Laboratory fee: \$20 per semester.

Prerequisite: PSY 2100C.

(2110 Sensory Psychology). 3 credits.

The senses and their fundamental role in the regulation of behavior; systematic treatment of vision, audition, and the other senses, with some application to human engineering.

Prerequisite: PSY 1010. Recommended: PSY 3804.

2111 Psychology of Perception. 3 credits.

The study of perception is the oldest part of modern psychology. Since much of what we know about the world comes from our senses, the study of these processes assumes vital importance. Through lectures, homework assignments, discussions and demonstrations, students study all five senses, with emphasis on vision and hearing, and explore topics such as psychophysics, color vision, tone perception, and object recognition.

Prerequisite: PSY 1010.

2140 Learning. 3 credits.

Introduction to general concepts and philosophical roots as well as classical and contemporary issues of learning theory. Examination of behavioral as well as cognitive models; life span developmental issues; the neural basis of learning and memory; and clinical applications of learning theory.

Prerequisite: PSY 1010.

2150 Cognitive Psychology. 3 credits.

Examines the theoretical perspectives and empirically documented phenomena of cognitive psychology. Lectures, discussions, demonstrations, and experiments contribute to students' understanding. Topics to be considered include reasoning, language, problem solving, creativity, and decision making.

Prerequisite: PSY 1010.

(2153 Mind, Language, and Consciousness).

2154 Motivation. 3 credits.
Physiological, behavioral, psychodynamic, and humanistic approaches to motivated behavior. Focus on hunger, thirst, reproduction, play, aggression, addiction, and achievement.
Prerequisite: PSY 1010. Recommended: PSY 3800, PSY 3804.

2155 Memory. 3 credits.
How memories are encoded, stored, and retrieved; long- and short-term memory; forgetting; neurobiological basis of memory; experimental and clinical syndromes of memory loss.
Prerequisites: PSY 1010, PSY 2150.

2164 Sociology of Language. 3 credits.
(Same as SOC 1931).
Societal factors that influence language use and lead to speaking or writing differently to the same and to different interlocutors, on the basis of demographic, situational, and metaphorical considerations; monolingual and multilingual networks in traditional and modern contexts; language relativism.
Prerequisite: PSY 1010.

(2400 Psychology of Adjustment).

2414 Abnormal Psychology. 3 credits.
Theories and research into causes of neuroses, psychoses, and deviant behavior; diagnosis and treatment.
Prerequisite: PSY 1010.

2430 Clinical Psychology. 3 credits.
History and background of clinical psychology; current research; functions and responsibilities of the clinical psychologist and related mental health personnel; introduction to diagnosis and psychotherapy; ethics of the profession.
Prerequisites: PSY 1010, PSY 2414.

3100 Comparative Psychology. 3 credits.
Evolution of behavior: a comparative study of growth and development of behavior in animals.
Prerequisite: PSY 1010.

3105 Social Psychology. 3 credits.
Dynamic study of social behavior; social learning, interpersonal attraction, aggression, attitudes, conformity, and social influence processes.
Prerequisite: PSY 1010.

(3121C Experimental Social Psychology).

(3174 Psychology of Women).

3400 Educational Psychology. 3 credits.
Application of principles of learning, motivation, and measurement to education.
Prerequisite: PSY 1010. Recommended: PSY 2150.

3410 Applied Psychology. 3 credits.
Various areas in which principles of psychology have practical application: industry, business, education, advertising, communication; mass media and their effect on the individual.
Prerequisite: PSY 1010.

3430 Industrial and Organizational Psychology. 3 credits.
Theory and practice of behavioral science in industry and business settings: selection techniques, merit rating, employee counseling; attitudes and morale; training, leadership, and job evaluation; time and motion studies; human ecology.
Prerequisite: PSY 1010.

3440 Drugs and Behavior. 3 credits.
Basic issues relating to drug use and abuse, from biological, psychological, social, historical, and legal perspectives. Physiological and psychological factors in the initiation of drug use, including an overview of the biochemical and neurological mechanisms involved in drug action, the natural history of drug use, factors affecting the cessation of drug use, and the effectiveness of therapeutic interventions in drug abuse.
Prerequisite: PSY 1010.

3601 Health Psychology. 3 credits.
The contribution of psychological factors to the development, course, and treatment of physical illness and disease. Research methodology, basic theories, empirical studies, and clinical applications. Factors covered include weight control, alcoholism, smoking, heart and respiratory disease, cancer, and chronic illness.
Prerequisite: PSY 1010.

3800 Personality. 3 credits.
Structure and dynamics of normal and abnormal personality development, including psychoanalytic and social learning approaches. Clinical diagnostic tests and procedures are discussed.
Prerequisite: PSY 1010.

3804 Psychobiology. 3 credits.
Mind and body. The nervous system and endocrine glands in relation to psychological processes; physiological basis of perception, motivation, emotions,

and learning.
Prerequisite: PSY 1010.

3824 Neuropsychology. 3 credits.
The principles and concepts that shape current neuropsychological thinking; experimental and clinical techniques as well as models of brain organization. Neuropsychological signs, symptoms, and syndromes in conjunction with brain structure and function. Specific focus on the neuropsychological implications for attention, motor function, sensory-perceptual integration, memory and learning, language, and thinking, along with developmental, adult, and geriatric implications.
Prerequisites: PSY 1010, PSY 2150, PSY 3804.

(3840 Psychology and the Law).

3850 Developmental Psychobiology. 3 credits.
Human development from a biological perspective. Behavioral genetics, ethology, the relationship between the developing nervous system and sensory, perceptual, and cognitive changes; biological origins of behavioral dysfunction.
Prerequisites: PSY 1010 and either PSY 1110 or 3804.

3860H Psychology and Religion. 3 credits.
Examines the reciprocal relationship between psychology and religion. On one hand, the psychological underpinnings of the religious experience include social determinants, development of religious perspectives and cognitive/value structures, functional effects of religious experience and behavior, and dynamic/personality influences on religious practice. On the other hand, religious experience and practice impact psychological states with consequences for psychosocial aspects of cultural dynamics.

4901 Independent Study.

4911 Guided Project.
Meet with the Yeshiva College academic dean.

4931; 4932 Problems in Psychology. 3 credits.
Seminars for majors involving extensive reading, discussion of several topics, and preparation of original papers.

REAL ESTATE (REA)

Minor: Sy Syms School of Business

Five courses chosen from REA 2943, 2945, 2947, 2949, 2951, 2963.

2943 Principles of Real Estate. 3 credits.
(Same as MAN 2943).
Provides an overview of the field of real estate and prepares the student for the New York State Real Estate Salesperson examination. Topics include license law and regulations, law of agency, real estate instruments, estates and interests, real estate financing, land use regulations, introduction to construction, appraisal, human rights, fair housing, real estate mathematics, and environmental issues.
Prerequisite: MAN 1020.

2945 Real Estate Management. 3 credits.
(Same as MAN 2945).
Review of residential, office, and retail properties and an introduction to the principles and practices of real estate management on a daily basis. Topics include forms of real estate ownership; budgeting and financial reports; marketing and leasing; labor relations; emergency procedures; federal, state, and city laws; and rent collection. Analysis of the financial and physical management functions. Students will learn how to create an operating budget on a cash basis and a capital budget.
Prerequisite: MAN/REA 2943.

2947 Real Estate Appraisal. 3 credits.
(Same as MAN 2947).
Theory, principles, and techniques for the appraisal of real estate property.
Prerequisite: MAN/REA 2943.

2949 Real Estate Finance. 3 credits.
(Same as MAN 2949).
Examines the methods and techniques used by investors, developers, and lenders in evaluating income-producing real estate investment debt and equity investments. Students identify sources of capital and analyze the types of financing available in the real estate industry. Topics include mortgage instruments and notes, mortgage underwriting, the secondary mortgage market, and the construction loan.
Prerequisite: MAN/REA 2943.

2951 Real Estate Law. 3 credits.
(Same as BLW/MAN 2951).
Survey of the basic principles of real estate property law for investment, lending, leasing, and development for both residential and commercial transactions. Students become familiar with terminology employed in describing various property interests, and with legal concepts involved in the acquisition, construction, leasing, financing, and sale of real estate property and real estate projects, including alternate forms of

ownership, co-ownership, cooperatives, and condominiums. The most commonly encountered liens and encumbrances are reviewed, as well as how they are dealt with in the context of a title search and the recording act. Legal documents used in lending, development, and investment of real estate. Prerequisite: MAN/REA 2943.

2963 Real Estate Investment. 3 credits.
(Same as MAN 2963).

How to analyze and structure investments in residential and commercial properties in light of existing market conditions. Topics include investing in cooperatives, condominiums, apartment buildings, shopping centers, and industrial properties, as well as finding properties, negotiating deals, converting rental properties into cooperative/condominiums ownership, and forming partnerships. Current tax law and its impact on the real estate investment. Prerequisite: MAN/REA 2943.

RUSSIAN (RUS)

Cluster advisor: Dr. H. Haahr.

1101, 1102 Elementary Russian. 3 credits.
Essentials of oral expression, listening comprehension, and basic reading and writing skills. For students with less than two years of high school Russian or equivalent experience. Students with one year of high school Russian may take 1102 with permission of the instructor or cluster advisor.

(1107–1108 Introduction to Scientific Russian).

1201, 1202 Intermediate Russian. 3 credits.
Intensive review of grammar; readings in literature; exercises in composition and conversation. Prerequisite: two years of high school Russian or RUS 1102. Students with three years of high school Russian may take 1202 with permission of the instructor or cluster advisor.

2101 Masterpieces of Russian Literature. 3 credits.
Great works of Russian prose, poetry, and drama. Prerequisite: RUS 1202 or equivalent experience.

2321 Classical Russian Drama. 3 credits.
History, theory, and generic antecedents of classical Russian drama through the late 18th-century; analysis of individual classical plays of the 19th and early-20th centuries. Prerequisite: RUS 1202 or equivalent experience.

2331 Russian Poetry. 3 credits.
History, theory, and generic antecedents of Russian poetry of the 19th and early-20th centuries; poetic analysis; literary trends of the period, e.g., romanticism, realism, symbolism. Prerequisite: RUS 1202 or equivalent experience.

2372 Russian Short Fiction. 3 credits.
Short works of fiction by the most important Russian classical and 20th-century authors. Prerequisite: RUS 1202 or equivalent experience.

2332 Lyrical Prose & Poetry. 3 credits.
Exploration of the lyrical impulse in Russian literature. Readings include works by Pushkin, Turgenev, Chekhov and Mayakovsky. Prerequisite: RUS 1202 or equivalent experience.

3332 Lyrical Prose and Poetry in Translation. 3 credits.

(4931 The Jew in Russian Literature). 3 credits.
The portrayal of the Jew in Russian literature of the 19th and 20th centuries; analysis of prose and poetic works, including memoirs, letters, and diaries. Prerequisite: RUS 1202 or equivalent experience.

SEMITIC LANGUAGES (SEM)

In this discipline, the first digit, 5, indicates that the course may be used for either undergraduate or graduate credit. Cluster Advisor: Dr. H. Haahr.

5111, 5112 Elementary Arabic. 3 credits.
Introduction to the grammar and syntax of classical and modern literary Arabic.

(5113 Elementary Arabic-Concentrated). 3 credits.
A one-semester version of 5111, 5112.

5121, 5122, 5123 Intermediate Arabic. 3 credits.
Selections from classical texts, with continued study of elements of Arabic grammar.

5301 or 5301H Introduction to Aramaic. 3 credits.
Introduction to the Aramaic language based on the reading of texts in a variety of Aramaic dialects from biblical through Talmudic.

5311, 5312 Biblical Aramaic. 3 credits.
Linguistic analysis of the Aramaic texts in the Bible.

5331, 5332 Aramaic of the Babylonian Talmud. 3 credits.
The idiom of the Talmud Bavli.

SOCIAL SCIENCE (SOS)

Minor: Sy Syms School of Business
Fifteen credits chosen from POL, PSY, and SOC. Maximum of two courses per aforementioned areas.

SOCIAL WORK

YESHIVA COLLEGE
A joint five-year program in social work is offered in conjunction with Wurzweiler School of Social Work, leading to a bachelor of arts degree and a master of social work degree.

During the first three years, students complete their general studies requirements and at least 18 credits toward the psychology or sociology major. Students usually begin part-time while completing their Jewish studies requirements. Interested students should consult the Office of the Dean.

SOCIOLOGY (SOC)

Major: Yeshiva College
SOC 1001, 1504 or 1505, 1643 or 1644, 4931 or 4932, STA 1021 or 1022, and an additional 15 credits in SOC courses chosen in consultation with the senior professor. 1506–1509 may substitute for 1504 or 1505 with permission of senior professor.

Minor: Yeshiva College
SOC 1001, 1504 or 1505, STA 1021 or 1022, and an additional 6 credits in SOC courses. 1506–1509 may substitute for 1504 or 1505 with permission of senior professor.

Minor: Yeshiva College
Public Health
SOC 1001, 1233, 1236, 1242, 1504. BIO 1011–1012 R&L and STA 1021 or 1022 are recommended for students who opt for this minor track. 1506–1509 may substitute for 1504 with permission from the senior professor.

1001 Introduction to Sociology. 3 credits.
Basic concepts, theories, methods, and findings of sociology; forms of social life: interaction, groups, organizations, and societies; socialization; inequality; social institutions.

1116 Sociology of Deviance. 3 credits.
Analysis of different theoretical perspectives in the study of deviance; social sources of deviance; study of various types of deviant behavior and attributes; reduction of and coping with deviance; the reintegration of the deviant in society. Prerequisite: SOC 1001.

1158 Criminology. 3 credits.
The study of delinquent and criminal behavior; theories of criminality; extent and patterns of criminality; behavior systems in crime; an overview of societal response to crime, including the police, courts and prisons; prevention and treatment of crime. Prerequisite: SOC 1001.

1160 Criminal Justice. 3 credits.
Extent and types of crime; criminal law; history, organization, functions, roles, lifestyles of the police; origin and role of the courts; sentencing; prosecution, defense, arbitration; ethics of lawyers; community and institution corrections and alternatives; juvenile justice; crime victims' rights; international and comparative criminal justice. Prerequisite: SOC 1158.

1163 Penology. 3 credits.
Overview of past and contemporary programs, purposes, issues, and problems related to correctional facilities. Viewpoints of administration, prisoners, victims, families of inmates, and society at large. Addresses work training, therapeutic care, and incarceration; controversy surrounding furloughs, recidivism, probation, and parole. Field trips to prisons. Prerequisite: SOC 1158 or 1160.

1164 White-Collar Crime. 3 credits.
Links white-collar crime (both individual and organizational) to "common crimes" by studying their similarities and differences. Study of the notion that one's respectability, occupational position, or access to wealth and power leads to and creates opportunity structures for crime that can be unique in and of themselves, but that may have corollaries to or spin-off from common crimes. Political and sociological aspects of these assumptions are analyzed. Prerequisite: SOC 1158.

1166 Organized Crime. 3 credits.
Attempts to provide a theoretical and practical basis for understanding the structure, function, and societal impact of criminal organizations. In-depth examination of the connection between urban political machines and organized crime, utilizing sociological

theories developed to explain the rise and continued existence of the organized-crime phenomenon.
Prerequisite: SOC 1158.

1202 Social Institutions. 3 credits.
The role and function of social institutions in the formation and maintenance of community and nationhood; historical background and contemporary ideological, technical, and ethical challenges. The political, economic, sociological, religious, and communication structures of contemporary life.
Prerequisite: SOC 1001.

1203 Biological Anthropology. 3 credits.
The biological evolution and variation of humans from the point of view of physiological and cultural adaptation. Introduces the student to materials, methods, and ideas (classical and contemporary) related to the field.

1204 Social Anthropology. 3 credits.
The study of people in relation to their geographic and sociocultural environments. Cultural variations and adaptive strategies in a broad range of societies focusing on food-gathering, marriage and the family; kinship terminology; psychology; religion; recreation; and folklore. Emphasis on field research methods.

1209 Introduction to Anthropology. 3 credits.
Introduction to the reconstruction of human evolution through the study of fossils and other evidence; primate behavior and ecology in the field; the comparative study of human cultural and social variation and similarity; archaeology; anthropological linguistics. Insights promote useful social policies.

1215 Sociology of Religion. 3 credits.
The reciprocal relationship between religion and the rest of society; how people interact and organize themselves within religious settings; research methods and dilemmas raised in the scientific study of religion; religious diversity, change, and stability; the complexities involved in the sociological study of Jewry and the various Eastern and Western religious traditions; how religious rituals, tales, myths, and facts shape, endorse, and validate humanity's responses to the world.

1232 Sociology of Health. 3 credits.
Distribution of disease among and within populations; trends in medical practice; politicization of health care; contemporary social and ethical issues in health care: genetic engineering, right to die, living wills, and consumer movements in health care.

1233 Introduction to Public Health. 3 credits.
History and philosophy of public health; socioeconomics of health care delivery and administration; management and planning of health care programs.
Prerequisite: SOC 1001.

1236 Epidemiology. 3 credits.
Distribution of disease and determinants of its frequency; history of epidemiological thinking, concept of cause, sources of data, design of epidemiological studies.
Prerequisites: SOC 1001, SOC 1233.

1242 Sociology of Mental Health. 3 credits.
Family role, expectations, hostility, and accommodation in relation to mental disorders; rationale for community care and kin support; preventable stressors; stress responses to war, social transitions, anomie, social isolation, social disintegration; tools of evaluation; prevalence and incidence of mental illness in the community.
Prerequisites: SOC 1001, SOC 1233.

1283 Sociology of Education. 3 credits.
Examination of the effects of formal and informal education on groups in society. Explores the relationship between education and social mobility; family background and values; and political pressures from communities, administrators, and teachers. Course discusses the development and status of the profession, its goals, its expectations, its strategies, and its culture.

1311 Urban Sociology. 3 credits.
Focuses on contemporary city life. Methods of studying the city, ranging from community studies to detailed observation of daily interaction; growth of the city, suburb and metropolis; political and economic issues such as gentrification, race relations, and the relationship among city, state, and federal government; critical evaluation of classical theorists; contemporary problems of the city.
Prerequisite: SOC 1001.

1402 Social Organization. 3 credits.
Social structure and dynamics; analysis of selected institutions and processes.
Prerequisite: SOC 1001.

1413 Social Stratification. 3 credits.
The study of the distribution of power in society; classical systems of stratification; theories of social stratification; gender and age stratification; social stratification in the United States; measurement of

stratification; stratification and social mobility; achieved vs. ascribed status.
Prerequisite: SOC 1001.

1436 Social Movements. 3 credits.
Theoretical perspectives appropriate to the analysis of political, religious, and cultural movements; case studies of various social movements as selected by the students.
Prerequisite: SOC 1001.

1504 Methods of Social Research. 3 credits.
Application of the scientific method to social data; definitions, concepts, and hypotheses; research design; techniques of collection and analysis of data.
Prerequisite: STA 1021 or any other course that encompasses quantitative methodological techniques.

1505 Qualitative Research Methods. 3 credits.
Experience in designing, collecting, analyzing, and writing of qualitative-based research. Extensive workshops with written practica and verbal reports. Students learn to use audiotape, film, video, photography, and computer-based multimedia while exploring the wide range of studies utilizing a qualitative approach.
Prerequisite: SOC 1001 or an introductory course in psychology or anthropology.

1506–1509 Topics in Social Science Research. 3 credits.
Applied research in sociology. Understanding societal concepts through experiments (laboratory and field) and recitation. Students may elect this course several times, provided different topics are studied.
Prerequisite: SOC 1001, any social science class, or permission of the instructor.

1640 Sociological Theories. 3 credits.
Selection of theories and theorists from SOC 1643 and 1644.
Prerequisite: SOC 1001.

1643 Early Sociological Theories. 3 credits.
Social forces in the development of early sociological theories: political revolution, industrial revolution, rise of capitalism, rise of socialism, urbanization, religious changes, and the growth of science; historical and intellectual evaluation of major sociological theories and theorists before contemporary times: Saint-Simon, Comte, Marx, Weber, Simmel, Spencer, Pareto, Mosca, Durkheim.
Prerequisite: SOC 1001.

1644 American Sociological Theories. 3 credits.
Societal and political sources of American sociological theories: industrial revolution, urbanization, immigration, development of the American university system, and impact of European theory on American sociology; major sociological theories and histories of theorists in America: Sumner, Ward, Thomas, Park, Cooley, Mead, Sorokin, Parsons, Kuhn, Homans, Mills, Goffman, Schutz, Merton, Becker.
Prerequisite: SOC 1001.

1730 or 1730H The American Jewish Community. 3 credits.
The effects Jews have had on American society and how American society has influenced Judaism; mechanisms used by Jews and other religious groups to thwart change or to adapt to the host culture: membership in associations and organizations, political behavior and lobbies, links with Israel. Relationships between Jews and other societal groups. In the honors version, each student reviews research literature on Jews in America, Israel, and/or another geographic location; comes up with a research design; and implements the collection of data. As a group, students critique all projects, reinforcing their knowledge of several methodological techniques as well as becoming informed about scientific investigations relevant to various aspects of contemporary Jewish life.

1746 Ethnic Groups in the United States. 3 credits.
Nature of ethnic and minority groups; acculturation and assimilation in the United States; relation of ethnic groups to the institutions of the dominant society; nature and causes of prejudice and discrimination.
Prerequisite: SOC 1001.

1757 Race, Caste, and Ethnicity. 3 credits.
Consequences of ascribed status. Ethnocentrism; hosts, immigrants, and settlement; assimilation patterns; ethnic and racial myths; contributions to society by minorities; responses to subordination practices; consequences of prejudice and discrimination; attitude formation and change; multiculturalism; political correctness: sensitivity and oversensitivity.

1831 Self and Society. 3 credits.
Analyzes how identity and the self are created through social, psychological, cultural and historical processes. These include socialization over the life course, and the performance of social roles such as child, student, spouse, consumer, worker, and senior citizen. Special emphasis on understanding the ways that gender, race and ethnicity, and class

shape emotional life and the creation of a multilayered self.

Prerequisite: SOC 1001.

1842 Study of Folklore. 3 credits.

An interdisciplinary course examining humanistic, oral, and written expression transmitted among sociocultural groups. Also explores the origins, forms, variant interpretations, methods of communication (including contemporary means such as the Internet and film), and social-psychological functions of various types of folklore and midrash.

1848 Culture and Personality. 3 credits.

Comparative study of people, their environments, culture, behaviors, attitudes, and feelings; formation and characteristics of social character and national character; problems with assessing personality; ethnopyschiatry; changing definitions of masculinity and femininity; witchcraft frenzy and other group madnesses; social psychology of time.

Prerequisite: SOC 1001 or PSY 1010.

1931 Sociology of Language. 3 credits.

(Same as PSY 1150).

Varieties of verbal skills; word classification systems; "correct" and "incorrect" language; language labels; linguistic changes due to societal pressures; media and the changing types of communication; sign language; conversational analysis; censorship; language of body movements; propaganda and persuasion.

1934 Sociology of Mass Media. 3 credits.

Role of mass media in the formation of public opinion in areas ranging from elections to images of women, Jews, and other groups; analysis of content of TV programming and production, how media influence politics and public opinion; dynamics and role of the pollster; mass media and consumerism; image ethics; public vs. private beliefs; and attitude formation.

2110 Demography. 3 credits.

Population trends in relation to resources; changes in birth and death rates; span of life and morbidity; social and other causes and effects of these changes; immigration; population policies and theories; collection, analysis, and interpretation of demographic data. Prerequisite: SOC 1001.

2210 The Family. 3 credits.

Analysis of the family in historical context; functions of the family; analysis of popular myths of the family; changes in gender roles and family relationships; cross-cultural perspectives on the family; divorce rate and

the family; the idealized family and attitude formation.

Prerequisite: SOC 1001.

2230 Sociology of Death and Dying. 3 credits.

Current knowledge on a wide variety of death-related topics: attitudes toward death, medical-care systems, grief, living wills, ethical wills, medical ethics, definitions of death, social psychology of aging, death in popular culture, and how life and death affect all sociocultural processes, values, and events.

3200 or 3200H Jewish Religious Behavior in Sociological Perspective. 3 credits.

Review of theories to explain key patterns, features, and issues in contemporary Jewish religious behavior. Exploration of the character of mainstream religious movements, novel alternatives, and challenges to the Jewish community. The relationship between the United States and Israel is discussed in light of social institutions.

4901 Independent Study.

4911 Guided Project

Meet with the Yeshiva College academic dean.

4930 Topics in Sociology. 3 credits.

A course for subject matter not provided in other SOC offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Recent offerings: Sociology of Visual Expression, Biblical Archaeology.

4931 Seminar in Sociology. 3 credits.

Seminar for majors. Extensive reading, discussion of current issues and problems in sociology, and preparation of papers. Prerequisite: senior status or permission of the instructor.

4932 Contemporary Israeli Society. 3 credits.

Examination of diverse cultural and religious sub-populations, governmental structures, political cultures, the relationship between religion and state, and the kibbutz experiment. Issues are considered in the context of Israel as a Jewish democratic state and in the light of growing American cultural influence.

SPANISH (SPA)

Minor: Yeshiva College

Eighteen credits in SPA courses, including one advanced language course and two literature courses

(one on Latin American literature and one on the literature of Spain). Courses at the 3000 level may not be included.

1101, 1102 Elementary Spanish. 3 credits.

Essentials of oral expression, listening comprehension, and basic reading and writing skills. For students with less than two years of high school Spanish or equivalent experience. Students with one year of high school Spanish may take 1102 with the permission of the instructor or cluster advisor.

(1120 Elementary Spanish-Concentrated). 3 credits.

Accelerated course covering the basics of first-year elementary Spanish in one semester. For students whose background prevents their taking SPA 1101, 1102, but is insufficient for 1201, 1202.

1201, 1202 Intermediate Spanish. 3 credits.

Intensive review of grammar; readings in literature; exercises in composition and conversation. Prerequisite: two years of high school Spanish or SPA 1102. Students with three years of high school Spanish may take 1202 with permission of the instructor or cluster advisor.

1231 Advanced Spanish language and composition. 2-3 credits.

Work on special problems of grammar; frequent exercises in translation; practice in composition and conversation. Prerequisite: SPA 1202.

2022; 2023 Masterpieces of Latin-American Literature. 3 credits.

Major literary works of Latin America and the Spanish-speaking Caribbean. Prerequisite: SPA 1202 or four years of high school Spanish.

2101; 2102 Masterpieces of Spanish Literature. 3 credits.

Study of the major literary works of Spain. Prerequisite: SPA 1202 or four years of high school Spanish.

(2113; 2114 Survey of Spanish Literature). 3 credits.

Spanish literature from its beginnings to the present, with selections from the major literary works.

Analysis and discussion.

Prerequisite: SPA 1202 or four years of high school Spanish.

(2131; 2132 Survey of Latin-American Literature). 3 credits.

Major literary works of Latin America and the Spanish-speaking Caribbean.

Prerequisite: SPA 1202 or four years of high school Spanish.

(2410; 2411 Civilization in Spain Through Literature). 3 credits.

An integrated study of the historical, literary, and cultural aspects of Spanish civilization; special attention to Sephardic contributions.

Prerequisite: SPA 1202 or native or near-native fluency in Spanish.

SPEECH AND DRAMA (SPE)

Major: Yeshiva College

SPE 1010 and 28 elective credits of which at least 18 are in SPE courses; the other 10, chosen with the approval of the cluster advisor, may be interdisciplinary, in advanced electives related to the student's academic and professional goals (at least 4 are generally recommended to be in ENG courses in the literature of drama or playwriting). No more than 4 credits in Theater Workshop may count toward the major. Cluster advisor: Dr. Beukas.

Minor: Yeshiva College

SPE 1010 and 12 elective credits of which no more than 2 may be from SPE 2031. With permission of the cluster advisor, 4 elective credits in ENG drama courses or playwriting may be used to meet the requirement.

0001 Speech Workshop (by appointment). No credit.

Designed to help students develop proper voice and speech patterns under personalized instruction. Students in this course are graded P (pass) or R (repeat).

1010 Speech Communication. Three hours plus conferences. 2-3 credits.

Effective informal and formal public speaking; informative and persuasive purposes. Focuses on logical organization, psychological motivation, research of topics, precise vocabulary, clear and pleasant vocal patterns, application of sound rhetoric to the communication of ideas.

1020 Group Discussion. 2-3 credits.

Communication in small groups for information sharing, problem solving, and negotiation. Focuses on the task group; theory and techniques vital to the dynamics of interaction; barriers to communication,

management of conflict, and methods of reaching consensus; participation in symposium, panel discussion. Develops leadership techniques and capacity for constructive interaction. Useful for law, medicine, business, and professions, as well as societies, clubs, and other personal social roles.
Prerequisite: SPE 1010.

1030 Voice and Diction. 2 credits.
Designed to help the student attain a high standard of American speech unmarred by dialect or foreign accent. Focuses on improvement in diction, articulation, pronunciation, intonation, and vocal use and projection; effective speech patterns for public speaking, theater, pulpit; guided practice, criticism, and experience.
Prerequisite: SPE 1010.

1300 Interpersonal Communication. Three hours plus conferences. 3 credits.
Verbal and nonverbal elements of interpersonal communication, such as interviews. Particularly useful for those intending to enter business.
Prerequisite: SPE 1010.

1510, 1511 Persuasion and Debate. 2 credits.
Analysis of controversy to discover its intrinsic and vital issues; beliefs presented through logical proofs and ethical emotional appeals; participation in decision-making discussion groups and debate. Particularly useful for those intending to become lawyers.
Prerequisite: SPE 1010.

1608 Advanced Public Speaking. 2 credits.
Theory and techniques of presenting speeches and eliciting specific audience response; intellectual integrity and ethics of emotional appeals; preparation of speeches (eulogies, introductions, exposés, critical reviews, calls to action) to enable students to gain proficiency in areas related to professional goals (e.g., law and business).
Prerequisite: SPE 1010.

1661; 1662 Great Speakers and Speeches. 2 credits.
First semester: classical antiquity; second semester: modern times. Techniques of great orators; their speeches; rhetorical theory and training. Students analyze and deliver famous speeches of their choice.
Prerequisite: SPE 1010.

2031 Theater Workshop. 2 hours. 1 credit.
Applied theatrical techniques and dramatic meth-

ods—including makeup, costuming, lighting, set design and construction, and role interpretation and acting—based on experience in preparing and participating in a Dramatics Society production. May be taken a maximum of four times for credit. May not be taken by students whose course loads exceed 17 credits that semester.
Prerequisite: permission of the instructor.

2090 Play Production. 2 credits.
Technical areas of play production; function of theater technicians and management; use of stage through lights, set design, costume design, actors and directors; problems of play selection; producing and publicity; role interpretation and acting; theatrical and dramatic analysis of selected plays. Practical experiences in classroom and Dramatics Society production.

2113; 2114 Theater Arts. 3 credits.
Survey of historical movements in the theater and their relationship to the contemporary theater; analysis of technique, development, and innovation in drama from the viewpoint of dramatic structure and production. The class attends several professional productions.

2910, 2911 Art of the Actor. 3 credits.
Study and development of the power and skills of interpretation necessary for the actor to reflect the ideas of the playwright in various media—legitimate theater, television, radio, and cinema. Students identify the essential characteristics and solve the problems of acting in these media.

2930 Techniques of the Director. 3 credits.
Theoretical and practical bases for understanding what the artistic director must do in preparation and rehearsal of a theatrical production to evoke the ideas, themes, and values of the playwright; working rehearsals in class to clarify acting, stagecraft, lighting, costuming, makeup, music, and movement for the stage.

2961; 2962 Play-Scenario Writing. 2 credits.
Playwriting for the theater, cinema, and television in traditional, contemporary, and experimental forms; discovering dramatic subject matter; developing the scenario; plot construction (exposition, conflict, crisis, climax, scenes of resolution); creating and developing characters; dialogue; author and theatrical production; theater, radio, television, and motion picture scripts.

4001, 4002 Oral Interpretation of Literature. 2–3 credits.
Development of improved vocal and interpretation skills for the oral communication of literature; analysis and performance of prose, poetry, and drama selections; radio and television techniques for reading literature and copy.
Prerequisite: SPE 1010.

4640 Foundations of Communication Theory. 3 credits.
Analysis and application of theories of communication (general systems, transactional, manipulative, organization) to problem situations in education, business, and personal life. Students conduct a study of a current problem that they feel can be solved through a media campaign, and report on the project and its results.
Prerequisite: SPE 1010.

4644 Language and Symbols in Communication. 3 credits.

4700 Mass Media in Western Civilization. 3 credits.
Historical development of the various print and electronic media and the impact of mass communications on society; legal and ethical issues in mass media, including the First Amendment; focus on contemporary trends.

4710 Broadcasting. 3 credits.
Historical development of the broadcasting industry; impact of radio, television, and other electronic media on society; current issues and laws; First Amendment in relation to broadcasting; scope and operation of the communications network.

4831; 4832 History of Film I & II. 3 credits.
Survey of important currents in film history and esthetics from the 19th century to the present. Helps students achieve visual literacy through an understanding of the rudiments of film grammar.
Laboratory fee: \$35 per semester.

4835 Filmmaking Techniques I. 3 credits.
Techniques that have produced modern cinematography. Students divide into camera crews and shoot film in class to explore these techniques. Each student makes a one-minute film as the final examination. Film and equipment are furnished for all films made in class—three per semester.
Laboratory fee: \$35.

4837 Film Criticism. 3 credits.
Styles and techniques of contemporary film criticism (film as art, “auteur,” genre, popular art). Selected films are viewed for written criticism.
Laboratory fee: \$35
Recommended: SPE 4835.

4850 Films of Hitchcock. 3 credits.
In-depth exploration of Alfred Hitchcock’s film career; various methodologies including genre and auteurist approaches; fundamental issues in film history and esthetics, with Hitchcock’s films as basis for investigation; screenings and discussions.
Laboratory fee: \$35.

4854 Film Genres. 3 credits.
Special topics in cinema: silent films, film noir, comedy, the western, war films.

4901, 4902 Independent Study
Meet with the Yeshiva College academic dean.

STATISTICS (STA)

1021 Introduction to Statistics. 3 credits.
Sources and types of quantitative data; descriptive statistics: graphic displays and frequency distributions, measures of central tendency and variation; samples and populations; shapes of distributions (bimodal, skewness, kurtosis); probability and statistical decision making; sampling distributions (binomial, F, normal, Student’s t, U, chi-square); inferential statistics: approximating percentages, estimating procedures, testing hypotheses for differences or relationships (including regression and trend analyses); tests to check model assumptions; correlation vs. causation; lying with statistics.

1022 Introduction to Statistics. 3 credits.
Descriptive statistics. Testing hypothesis and confidence interval derivation for one and two population means, proportions and variances, goodness of fit, contingency tables, ANOVA and simple and multiple regression analysis.
Prerequisite: Calculus.

1024 Statistical Methods. 3 credits.
Finite populations; statistical decision theory; chi-square; analysis of variance; time series; index numbers; non-parametric tests; non-linear regression.
Prerequisite: STA 1021 or 1022.

2461 Probability Theory. 3 credits.
Probability spaces; combinatorics; conditional prob-

ability; discrete and continuous random variables; examples; density and distribution functions; independence; expectation and variance; moment generating functions; law of large numbers; central limit theorem; applications. (See MAT 2461).
Prerequisite: MAT 1510.

2462 Mathematical Statistics. 3 credits.
Hypothesis testing, confidence intervals, regression analysis, correlation, t-distribution, time series analysis, analysis of variance, F-distribution. (See MAT 2462).
Prerequisite: STA 2461.

2471 Queuing Theory. 3 credits.
Classification of queues; systems without memory; systems with losses; queues as birth-and-death processes; embedded Markov chains; networks; diffusion and Monte Carlo approximations. (See MAT 2471).
Prerequisite: STA 2462.

STATISTICS FOR BUSINESS (STB)

0001 Pre-Statistics for Business. No credit.
A review of computational and problem-solving skills. Presentation of a broad scope of fundamental concepts in applied mathematics relevant to accounting, finance, management, and marketing, with examples drawn from different business disciplines.

1131 Statistics for Business. 3 credits.
Modern statistical methods as a basis for decision making. Fundamentals of probability, discrete and continuous distributions, data reduction and display techniques, estimation, regression and correlation analysis, time series. Credit is not given for both STA 1021 and STB 1131.
Prerequisite: passing Mathematics Proficiency Exam or STB 0001.

1456 Quantitative Analysis for Business. 3 credits.
Applications of calculus for solving business problems. Modeling using linear functions, limits, and asymptotes; techniques of differentiation, rate of change problems, and marginal analysis; higher-order derivatives and optimization, techniques and applications of integration as they relate to business. (Required for Finance majors. May be taken in lieu of STB 1601 by other business majors).
Prerequisites: STB 0001, STB 1131.

1601 Operations Management. 3 credits.
Introduction to the study of operations. Operations

Management includes a blend of topics from operations research, industrial engineering, management, management science, and statistics. Students benefit from understanding the fundamental processes involved in both manufacturing and service organizations. Course emphasizes service organizations and how operations research and statistical techniques can be used to solve management problems.
Prerequisites: STB 0001, STB 1131.

TALMUD (TAL)

In text courses, the tractate selected from the Babylonian Talmud for study may vary from year to year. When "laboratory" hours are indicated, they consist of supervised study for preparation and review of textual materials examined in the formal lectures. During the period covered by this Catalog, it is anticipated that courses TAL 1001 through 1106 will be offered at James Striar School; 1105A through 1204B at Isaac Breuer College; and 1211 through 1228 at Yeshiva Program/ Mazer School. Students also should note the related courses numbered JUD 1800– through 1899.

1001, 1002 Elementary Talmud I. 6 credits.
Textual study of portions of a tractate, with commentary of Rashi. Emphasis on correct reading and translation, and on learning the Talmudic idiom.

1003, 1004 Elementary Talmud II. 4 credits.
Continuation of 1001, 1002.

1023; 1024 Mishna. 4-6 credits.

1101; 1102 Intermediate Talmud I. 6 credits.
Six to ten folios each semester from a tractate selected by the faculty, with commentary of Rashi and selected Tosafot and Rishonim.

1103; 1104 Intermediate Talmud II. 6-8 credits.
Textual study of portions of a tractate, with commentary of Rashi and selected Tosafot and Rishonim.

1105; 1106 Intermediate Talmud III. 4-8 credits.
Continuation of 1103; 1104 or 1103B; 1104B.

1111, 1112 Intermediate Talmud IV. Six hours. 3-6 credits.
Textual study of portions of a tractate, with commentary of Rashi, all Tosafot, and selections from other classical commentaries.

1113; 1114 Intermediate Talmud V. Four hours. 2 credits.
Continuation of 1112. A modified course for non-majors.

1121 through 1124 Selected Topics in Talmud. 2-3 credits.
Topics, chosen according to the needs and interests of the class, selected from diverse Talmudic texts and studied as coherent units, utilizing classical commentators and codifiers.

1201, 1202 Advanced Talmud I. Six hours. 3-6 credits.
Advanced Talmud study, including self-preparation of text, emphasizing medieval and later commentaries. Content varies from year to year and course may be repeated for credit.

1203, 1204 Advanced Talmud II. Six hours. 3-6 credits.
Advanced study of the Talmud, emphasizing critical analyses of texts and commentaries and development of the student's ability to prepare and collate studies in primary sources.

1207, 1208 Advanced Talmud -Beit Midrash. 6 credits.

1211 through 1228 Advanced Talmud. 8-16 credits per semester.
Texts of the Talmud studied intensively with the exegesis of Rashi and Tosafot and other ancient, medieval, and modern commentaries. The curriculum is based on a four-year cycle and covers some of the most important tractates of the Babylonian Talmud and their commentaries.

1229; 1230 Advanced Talmud. 6 credits.

4901, 4902 Independent Study.
Meet with the Jewish Studies Dean.

TAXATION (TAX)

2501 Federal Income Taxation. 3 credits.
Analysis of the basic principles of federal income taxation as they apply to individuals, corporations, trusts, and estates.
Prerequisite: ACC 1102.

2502 Advanced Federal Income Taxation. 3 credits.
Federal income tax law and regulations, with emphasis on corporate taxation; tools and methods of tax research; review of the practice requirements of the Internal Revenue Service.
Prerequisite: TAX 2501.

6124 Federal Income Taxation I. 3 credits.
Introduction to taxation, determination of tax, gross income inclusions and exclusions, capital gains and losses, deduction, itemized deductions, losses and bad debt, employee expense, depreciation, and accounting periods and methods.
Prerequisites: ACC 3201, ACC 3601.

6125 Federal Income Taxation II. 3 credits.
Comprehensive study of the federal income taxation of corporations, partnerships, estates, and trusts. Also covers skills in effective tax research.
Prerequisite: TAX 6124.

6130 State and Local Taxes. 3 credits.
Basic elements of state and local taxes for individuals and corporations—sales and use taxes, franchise and income taxes, personal property taxes and real property taxes.
Prerequisite: TAX 6125.

YIDDISH (YID)

Instruction in Yiddish at Yeshiva University is supported and enriched through the generosity of the Anna and Harry Singer Endowed Fund for Yiddish Studies and the Atran Foundation.

1101, 1102 Elementary Yiddish. 3 credits.
Introduction to the written and oral language, including basic vocabulary, grammar, composition, and conversation; Yiddish as the vernacular of Ashkenazic Jewry; simple literary and traditional texts.

1201, 1202 Intermediate Yiddish. 3 credits.
Continuation of study of grammar, composition, and conversation; history of Yiddish and its literature; readings from traditional and modern texts.
Prerequisite: YID 1101, 1102 or equivalent.