## Programs of Study & Course Descriptions

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ACCOUNTING (ACC)

MAJOR: Sy Syms School of Business

CPA TRACK:
ACC 1101, 1102, 2403, 3201, 3601; BLW 2112; TAX 6124, 6125; and any one Sy Syms elective.

NON-CPA TRACK:
ACC 1101, 1102, 2403, 3201, 3601; one additional ACC/TAX courses and any three additional Sy Syms electives.

MINOR: For Sy Syms School of Business students
ACC 1101, 1102, and 2403

MINOR: For Stern College Students
ACC 1001, 1002, FIN 1001, ACC 1101, 1102, and any other Sy Syms course.

ACC 1001 Principles of Accounting I 3 Credits
Introduction to financial accounting: the accounting cycle, preparation of financial statements, accounting for cash and temporary investments, receivables, inventories, and long-lived assets.

ACC 1002 Principles of Accounting II 3 Credits
Accounting for current and long-term liabilities, stockholders' equity, statement of cash flows, introduction to management accounting, cost behavior, and break-even analysis. Prerequisite: ACC1001.

ACC 1101 Intermediate Accounting I 3 Credits
Intensive study of the application of generally accepted accounting principles to selected assets: including cash, receivables, inventories, long-lived assets, and intangibles. Prerequisite: ACC 1002.

ACC 1102 Intermediate Accounting II 3 Credits
Continuation of the study of balance sheet items: current liabilities, long-term liabilities including bonds, pensions, and stockholders' equity; income tax allocation, leases; principles of income determination, and statement of cash flows. Prerequisite: ACC 1101.

ACC 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.

ACC 3201 Advanced Accounting 3 Credits
Accounting for business combinations and consolidations, foreign operations, segment reporting, interim reporting, and partnerships.
Prerequisites: ACC 1102, ACC 2403.

**ACC 3601 Principles of Auditing 3 Credits**
Auditing standards and procedures, auditor's reports, the nature of evidence in the audit, evaluation of internal controls, audit sampling, auditing computerized systems, code of professional conduct.
Prerequisite: ACC 3201.

**ACC 3604 International Finance and Accounting 3 Credits** (Same as FIN 3604)
Analysis of special topics in international finance, including international capital flows, international accounting, theories of foreign exchange-rate determinations, Eurocurrency and Eurobond markets, and integration of multinational markets.
Prerequisite: ACC 1002, FIN 1001.

**ACC 3851 Financial Statement Analysis 3 Credits** (Same as FIN 3851)
Methods of communicating information about financing and operating activities of corporations, and techniques for analyzing and evaluating information.
Prerequisites: ACC 1002, FIN 1001.

**ACC 3871 Forensic Accounting: Fraud Examination 3 Credits**
Forensic Accounting is concerned with the detection, prevention, and correction of financial fraud and white-collar crime activities. This course identifies areas of financial risk, develops internal control policies and procedures, as well as defines the role of the forensic accountant in the courtroom.
Prerequisites: ACC 1101, FIN 1001.

**TAX 6124 Federal Income Taxation 3 Credits** (formerly TAX 2501)
Analysis of the basic principles of federal income taxation as they apply to individuals, and other selected entities.
Prerequisite: ACC 1102, and senior status.

**TAX 6125 Advanced Federal Income Taxation 3 Credits** (formerly TAX 2502)
Federal income tax law and regulation, with emphasis on corporations, partnerships, trusts, and estates; tools and methods of tax research; review of the practice requirements of the Internal Revenue Service. Prerequisite: TAX 6124.

**AMERICAN STUDIES (AMST)**

**MINOR: Stern College for Women**
18 credits
The American Studies minor offers students the opportunity to take an interdisciplinary approach to the study of the culture and history of the United States.
Eighteen credits: 3 credits in HIST or POLI; and 3 credits in English literature or American Art History. The remaining 12 credits may be chosen from among a list of
designated courses in the departments of: art, economics, English, history, Jewish History, music, political science, or sociology.
The six total courses required for the minor must be drawn from three or more departments.
An American Studies Minor Fact Sheet, available in the Academic Advisement Center and online, lists additional specifics and the acceptable courses in each category. Courses which may count toward the minor are noted in each semester’s course schedule.

ART (ARTS)

MAJOR: Stern College for Women
Students may elect a Shaped Major with emphasis on art history, fine arts, studio art, pre-architecture, graphic art or art therapy. See section on Shaped Major.

MINOR: Stern College for Women
Fifteen credits.
Art History minors must take all 15 credits in Art history as follows: Either ARTS 1050 plus 4 advanced Art History courses or ARTS 1051 and 1052 plus 3 advanced Art History courses.
Art Studio minors must take ARTS 1050 or 1051 or 1052 plus 12 additional credits in Studio Art.

ART HISTORY COURSES

1050 Introduction to Art 3 credits
A study of selected masterpieces of Western civilization in painting, sculpture, and architecture, from antiquity to the 20th century.

1051; 1052 History of Art 3 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, Gothic, and early Renaissance periods. Second semester: Renaissance to present, with emphasis on context, meaning, and style in the work of selected artists. ARTS 1051, 1052 are not open to students who have taken ARTS 1050.

1170 Art of Ancient Greece and Rome 3 credits
Art of ancient Greece and Rome from the 10th century B.C.E. to the 4th century C.E. Prerequisite: ARTS 1050 or ARTS 1051.

1200 Medieval Art 3 credits
Survey of European painting, sculpture, architecture, and luxury arts from the 3rd to mid-14th centuries. Prerequisite: ARTS 1050 or ARTS 1051.
1301 Northern Renaissance Art 3 credits
Northern European painting, sculpture, and graphic arts of the 15th and 16th centuries. Prerequisite: ARTS 1050 or ARTS 1052.

1302 15th Century Italy 3 credits
Italian painting, sculpture, and architecture of the 15th century. Prerequisite: ARTS 1050 or ARTS 1052.

1303 16th Century Italy 3 credits
Italian painting, sculpture, and architecture of the 16th century. Prerequisite: ARTS 1050 or ARTS 1052.

1350 Baroque Art 3 credits
Survey of Baroque painting, sculpture, and architecture of 17th century Europe. Prerequisite: ARTS 1050 or ARTS 1052.

1352 18th Century Art 3 credits
Survey of Rococo and Neoclassical painting, sculpture, and architecture of 18th century Europe. Prerequisite: ARTS 1050 or ARTS 1052.

1431 Early 19th Century Art 3 credits
History of art and architecture from late 18th century to the mid-19th century. Emphasis on Neoclassicism and Romanticism. Prerequisite: ARTS 1050 or ARTS 1052.

1432 Late 19th Century Art 3 credits
History of art and architecture from the middle to the end of the 19th century. Emphasis on Realism, Impressionism, and Post-Impressionism. Prerequisite: ARTS 1050 or ARTS 1052.

1451 Early 20th Century Art 3 credits
History of art and architecture from 1900 to the 1940s. Emphasis on Modernism and the historical avant-gardes. Prerequisite: ARTS 1050 or ARTS 1052.

1471 Contemporary Art 3 credits
History of art from the 1940s to the present, with emphasis on Modernism, Post-Modernism, and the rise of the contemporary art world. Prerequisite: ARTS 1050 or ARTS 1052.

1540 Asian Art 3 credits
Survey of the painting, sculpture, and architecture of China, Japan, India, and Southeast Asia. Prerequisite: ARTS 1050 or ARTS 1051 or ARTS 1052.
1613 American Art 3 credits
Survey of American painting, sculpture, and architecture from the colonial period until the present.
Prerequisite: ARTS 1050 or ARTS 1052.

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.
Prerequisite: ARTS 1050 or ARTS 1052.

1635 The New York Skyscraper 3 credits
Discover the evolution of the skyscraper from its roots in 19th Century cast iron lofts to the complex amalgams of today. This is an in-depth look at the links between architecture, engineering, planning, zoning, and economics using the towers of Midtown and the Financial District as our classroom.

1637 NYC Architecture and Urban Design 3 credits
The architecture of New York, its building types, and various styles. Site visits and study in light of the history of the city, significant social and economic events, and patrons responsible for commissions.
Prerequisite: ARTS 1050 or ARTS 1052 and permission of the instructor.

1645 History of Photography 3 credits
Survey of the history of photography from its origins to the present. Topics covered may include photography as technology, its use in mass media, and its legitimization as an art. Special focus on the theory and history of the medium of photography and its rise to prominence in contemporary artistic practice.
Prerequisite: ARTS 1050 or 1052.

1750 Philosophy and Criticism of Art 3 credits
This course examines key philosophical issues in the history of art, together with influential critical approaches to art, its meaning and reception in society. Important texts from classical antiquity to contemporary culture develop students’ critical skills in analysis of art and its surrounding issues.
Prerequisite: ARTS 1050, 1051 or 1052; or Philosophy course

1850 Women in Art 3 credits
This course explores women’s diverse roles as creators, muses, and patrons in the history of art. It covers a wide range of historical periods and critical perspectives highlighting the significance of feminist art history in the development of the discipline.
Prerequisite: Arts 1050 or 1051 or 1052.

1924 Jewish Art and Visual Culture 3 credits
Selected topics in the history of Jewish art from antiquity to the present.
1948 Image of Jerusalem 3 credits
This course explores how artists and architects of Judaism, Christianity, and Islam expressed their reverence for Jerusalem and affected its landscape, and how they created symbols of Jerusalem outside the Land of Israel that evoked the Holy City.

1973 through 1977 Topics in Art History 3 credits
May be repeated, as subject matter varies from term to term. Some courses offered abroad.

1985 Seminar in Art History 3 credits
Students develop research skills employing various methodologies used in the study of art history. Oral and written reports are presented on works of art in New York collections.
Prerequisite: required for seniors; open to others with permission.

1990 Senior Thesis 1 credit
Exit paper combining research and original scholarship. The paper normally stems from work done in Seminar in Art History.

ART STUDIO COURSES

2001 The Studio Experience 3 credits
Introduction to several different art media and approaches, for the beginning art student. Drawing, painting, and sculpture projects dealing with various degrees of realism and abstraction. For non-majors only.

2201 Principles of Design 3 credits
Elements and principles of two-dimensional visual expression, such as line, space, color, and shape, with emphasis on compositional movement. Studio projects, weekly sketchbook assignments and written art reviews. Foundations level course to be taken early in the Studio Art sequence.

2205 Color 3 credits
Introduction to the study of color and the role it plays in design and art. Fundamental concepts such as color interaction, expressive color, color physics, spectral color and surface color will be explored through a series of hands-on projects in a variety of media including acrylic painting.

2286 Watercolor 3 credits
Instruction in the practice of watercolor painting methods and materials with projects including still life, portrait, landscape and non-objective formats. Basic techniques covered include wash, wet into dry, wet into wet, masking, glazing and others. No prerequisite, but drawing and/or painting experience is helpful.

2301 Principles of Drawing 3 credits
Introduction to basic drawing skills via study of the still life and clothed model. Fundamental drawing concepts including: Perspective, effective use of line, mass and
value are explored through diverse graphic media. Foundations level course to be taken early in the Studio Art sequence.

2303 Intermediate Drawing 3 credits
Extension and application of basic skills acquired in ARTS 2301. Continued exploration of drawing as an expressive medium through traditional and non-traditional formats and a variety of media. Projects include still life, live model, portrait and drawing from imagination. 
Prerequisite: ARTS 2301 or equivalent.

2304 Advanced Drawing 3 credits
Extension and application of skills acquired in ARTS 2303 or equivalent. Cultivation of drawing disciplines, encouragement of original thinking, and development of individual style. This course may be taken a second time for credit. 
Prerequisite: ARTS 2303 or equivalent.

2307 Illustration 3 credits
Working in a variety of media from both observation and imagination, students will gain experience communicating ideas and content through the use of illustration. Projects include: Graphic novel, children’s book, editorial, comic strip among others. 
Prerequisite: ARTS 2301 or equivalent.

2310 Mural Painting 3 credits
Instruction in design, development and practice of Faux and Decorative finishing techniques with an introduction to the use of these techniques in Tromp l'oeil and Mural painting. 
Prerequisite: ARTS 2511 or permission of instructor.

2511 Painting Fundamentals 3 credits
Introduction of basic acrylic painting techniques. Fundamental concepts and skills including color mixing, use of tools and media, rendering form, spatial relationships and composition will be covered through a variety of projects, primarily from the still life. Foundations level course to be taken early in the Studio Art sequence.

2513 Intermediate Painting 3 credits
Introduction of oil painting techniques through hands-on projects. An opportunity for students to develop their visual voice. 
Prerequisite: ARTS 2001 or ARTS 2511.

2515, 2516 Advanced Painting I, II 3 credits
Extended study of painting as an expressive medium with a focus on formal and conceptual development. Use of oil, acrylic, and mixed media. Intended for the mature exploratory painter. 
Prerequisite: ARTS 2513.
2700 Three-Dimensional Design 3 credits
A study in the fundamentals of Three Dimensional composition as used by architects, artists, and designers to successfully create products, objects, spaces and experiences. Introduction of basic three-dimensional processes and materials and development of the students’ ability to analyze form and space relationships as well as the various intersections of structure, form, and meaning.

2701 Sculpture 3 credits
Concepts of modern sculpture explored through specific hands-on projects including: Carving, modeling, casting, and assemblage.

2703 Model Making 3 credits
This course focuses on model making and its implementation as a three-dimensional communication tool in application to various design disciplines. Starting with scale drawing as a foundation, and with an emphasis on materials and techniques, the entire design and construction process will be explored from sketch models through finished color renditions. Prerequisite: ARTS 2700.

2831 Creativity and Innovation 3 credits
Series of open-ended two and three-dimensional projects utilizing new materials and encouraging innovation, experimentation, and creativity.

2901 Printmaking 3 credits
Introduction to a variety of printmaking techniques including: relief, intaglio, monotype and serigraphy with an emphasis on contemporary practices and materials.

2902 Advanced Printmaking 3 credits
Advanced projects in printmaking; exploration of additional media and techniques. Prerequisite: ARTS 2901.

3009 Introduction to Computer Design 3 credits
Students acquire a basic proficiency in the software programs essential to graphic design and visual communication: Adobe Photoshop, Illustrator and InDesign. This course is the prerequisite for several intermediate level design courses and should be taken early in the Studio Art sequence.

3012 Digital Photography 3 credits
An introduction to the fundamentals of digital photography. Basic camera operation, editing images, lighting and composition will be covered. Adobe Photoshop, Lightroom and other software are utilized to explore possibilities for image correction, manipulation and output.

3013 Intermediate Design 3 credits
Extensive study of graphic design principles with a concentration on research, process and experimentation. Focusing on visual communication, students will familiarize themselves with the graphic design process through a range of projects for both print-
based media and the screen. Emphasis on applying the appropriate software and tools to more complex and comprehensive design challenges.
Prerequisites: ARTS 2201, 3009.

**3014 Typography 3 credits**
Introduction to the fundamentals of typography: Typographic terms and technologies, compositions and systems. Projects utilize hand-made studio processes as well as computer technology. Focus on typography as an expressive medium that can create and support content through a variety of projects.
Prerequisites: ARTS 2201, 3009.

**3018 Exhibition Design 3 credits**
Study of the process and elements involved in exhibition design. Students will collaborate on the design of the annual Stern Senior Art Exhibition while relevant issues such as exhibition identity, environmental graphics, promotional materials and space planning are discussed. Intended for students interested in graphic design, interior design, architecture or museum studies.
ARTS 3009 recommended.

**3020 Introduction to Video 3 credits**
Introduction to the fundamental techniques and processes of digital video production. Students take projects from concept to completion while learning basics in digital videography and editing with Adobe Premiere. Projects include: Narrative short, music video and documentary.

**3021 Advanced Video 3 credits**
This course builds upon the knowledge and skills acquired in ARTS 3020. Advanced editing techniques, image manipulation tools, compositing, motion graphics and media management are covered. Students create both collaborative and independent video projects.
Prerequisite: ARTS 3020.

**3025 Intermediate Photography 3 credits**
This course builds on the fundamentals acquired in Digital Photography and guides students to an advanced, working understanding of the medium. Students will become well versed in numerous technical approaches to image making; hone their analytical skills through lectures, research and gallery visits; as well as learn about the realities of being a professional photographer.
Prerequisite: ARTS 3012.

**3026 Advanced Photography 3 credits**
Extended study of the photographic medium focusing on advanced practices and concepts as well as portfolio development.
Prerequisite: ARTS 3025.

**3045 Advanced Design 3 credits**
Concentration on sophisticated creative strategies and the advancement of personal style through a progression of rigorous and complex design projects. Intended to equip students to enter professional practice in graphic design, portfolio development will be emphasized. Prerequisites: ARTS 3013, 3014.

**3830 Methods and Media 3 credits**
Examination of traditional techniques of drawing and painting from a historical perspective while exploring contemporary applications. Covers two-dimensional media including: Silver-point, gold leaf, egg tempera, fresco, and encaustic.

**3842 Art Therapy 3 credits**
Students will be introduced to the main theoretical approaches of art therapy. They will explore the therapeutic use of art materials and the context in which they are used. The class will consist of readings, lectures, discussions, art experientials and 2 site visits.

**3965-3970 Topics in Studio Art 3 credits**

**4901, 4902 Independent Study**
See Academic Information and Policies section.

**4932 Art and Experience in Medici Florence 3 credits**
Covers the art and history of Florence—the center of the Italian Renaissance in the 15th century—as well as the role of the Jews and their contribution to Italian culture, through visits to Florence museums and monuments. Prerequisite: ARTS 1050 or ARTS 1052. Recommended: ARTS 1302.

**4974 Pre Senior Project 0 credit**
Students will conceptualize and prepare for the execution of their senior project, including project proposal approval by the Chair. Prerequisite for continuing on to Senior Project, 4975. This course is graded on a P/N basis.

**4975 Senior Project 1 credit**
Mandatory exit project in which the student creates a culminating portfolio piece in her area of specialization. Required for studio art majors.

**BIBLE (BIBL)**

**MAJOR: Stern College for Women**
Jewish studies majors may concentrate in Bible. See the description of the Jewish studies major. Bible courses are offered on the beginning, elementary, intermediate, and advanced levels.

**1015; 1016 Introduction to the Bible 3 credits**
Authorship and canonization; Masoretic text; translations of the Bible; survey of medieval exegesis; modern Biblical studies; bibliographical and methodological guidance. For advanced students.

**1081; 1082 Introduction to Exegesis 3 credits**  
Principles of biblical interpretation; survey of classical exegetes.

**1083; 1084; 1085; 1086 Topics in Biblical Exegesis 3 credits**  
Selected biblical texts, primarily from the Pentateuch, examined in light of classical and modern Jewish commentaries.

**1087; 1088; 1089; 1090 Biblical Exegetes I; II; III; IV 3 credits**  
Survey of the major exegetes, classical and modern, analyzing historical background, style, and methodology. First semester: Northern French school; second semester: Spanish school; third semester: Provence and Italy; fourth semester: modern commentators.

**1096; 1097, 1098 Nahmanides on Pentateuch 3 credits**  
Analysis of the commentary of Moses Nahmanides (Ramban), his method and terminology, and similarities to—and differences from—other exegetes.

**1115-1120 Pentateuch: Weekly Portion 3 credits**  
The weekly portion of the Pentateuch studied with standard commentaries.

**1159; 1160 Women in the Bible 3 credits**

**1165 Jewish Exegetical Polemics 3 credits**

**1171, 1172 Personal Development in the Bible I, II 3 credits**

**1201; 1202 The Book of Genesis 3 credits**  
Basic introduction to the Pentateuch. Translation and exposition of the text in accordance with standard commentaries, with introduction to Rashi. For elementary students.

**1203; 1204 The Book of Genesis 3 credits**  
Same content as 1201; 1202 with selections from Rashi. For lower intermediate students.

**1205; 1206 The Book of Genesis 3 credits**  
Same content as 1201; 1202 with selected passages from Rashi and other commentators. For intermediate students.
1207; 1208 The Book of Genesis 3 credits
Same as 1205; 1206; for upper intermediate students.

1209; 1210 The Book of Genesis 3 credits
Intensive study using classical and modern commentaries. For advanced students.

1211; 1212; 1213; 1214 Topics in Genesis 3 credits

1303; 1304 The Book of Exodus 3 credits
Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For lower intermediate students.

1305; 1306 The Book of Exodus 3 credits
Same as 1303; 1304; for intermediate students.

1307; 1308 The Book of Exodus 3 credits
Same as 1303; 1304; for upper intermediate students.

1309; 1310 The Book of Exodus 3 credits
Intensive study using classical and modern commentaries. For advanced students.

1311; 1312; 1313; 1314 Topics in Exodus 3 credits

1405; 1406 The Book of Leviticus 3 credits
For intermediate students.

1407; 1408 The Book of Leviticus 3 credits
Same as 1405; 1406; for upper intermediate students.

1409; 1410 The Book of Leviticus 3 credits
Intensive study using classical and modern commentaries. For advanced students.

1411; 1412 Topics in Leviticus 3 credits

1503, 1504 Book of Numbers 3 credits
Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For lower intermediate students.

1505; 1506 The Book of Numbers 3 credits
Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For intermediate students.

1507; 1508 The Book of Numbers 3 credits
Same as 1505; 1506; for upper intermediate students.
1509; 1510 The Book of Numbers 3 credits
Intensive study using classical and modern commentaries. For advanced students.

1511; 1512 Topics in Numbers 3 credits

1603; 1604 The Book of Deuteronomy 3 credits
Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For lower intermediate students.

1605; 1606 The Book of Deuteronomy 3 credits
Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For intermediate students.

1607; 1608 The Book of Deuteronomy 3 credits
Translation and exposition of the text in accordance with standard commentaries; selected passages from Rashi and other commentators. For upper intermediate students.

1609; 1610 The Book of Deuteronomy 3 credits
Intensive study using classical and modern commentaries. For advanced students.

1611; 1612 Topics in Deuteronomy 3 credits

2049; 2050 The Haftarot 3 credits
Those portions of the Prophets used as synagogue lessons. For advanced students.

2107; 2108 Early Prophets 3 credits

2109; 2110 Early Prophets 3 credits
Selections from the Early Prophets, with classical commentaries. First semester: conquest of Canaan and early Judges; second semester: later Judges and the establishment of the Monarchy. For advanced students.

2114 through 2365 Early Prophets 3 credits
Specific portions of the text, with classical and modern commentaries.

2115, 2116 Joshua 3 credits
For intermediate students.

2117; 2118 Joshua 3 credits
For upper intermediate students.

2119; 2120 Joshua 3 credits
For advanced students.

2121 Judges 3 credits
For intermediate students.

2122; 2123 Judges 3 credits
For upper intermediate students.

2125; 2126 Judges 3 credits
For advanced students.

2148; 2149 Samuel 3 credits
For intermediate students.

2152; 2153 Samuel I 3 credits
For upper intermediate students.

2154; 2155 Samuel II 3 credits
For upper intermediate students.

2156; 2157 Samuel I 3 credits
For advanced students.

2158; 2159 Samuel II 3 credits
For advanced students

2160 Topics in Samuel 3credits

2355; 2356 Kings 3 credits
For intermediate students.

2357; 2358 Kings I 3 credits
For upper intermediate students.

2359; 2360 Kings I 3 credits
For advanced students.

2363-2367 Topics in Kings 3 credits

2500 through 2879 The Later Prophets 3 credits
Texts studied with classical and modern commentaries; literary analysis; emphasis on historical background and religious and social problems considered by the Prophets.

2501; 2502 Later Prophets—Survey 3 credits

2503; 2504 Isaiah 3 credits
2505; 2506 Topics in Isaiah 3 credits

2555; 2556 Jeremiah 3 credits

2605; 2606 Ezekiel 3 credits

2653 Minor Prophets 3 credits

2658 Seven Minor Prophets 3 credits

2805; 2806 Haggai, Zechariah, Malachi 3 credits

3205; 3206 Psalms 3 credits
For lower intermediate students.

3207; 3208 Psalms 3 credits
For upper intermediate students.

3209; 3210 Psalms 3 credits
For advanced students.

3257; 3258 Proverbs 3 credits

3307; 3308 Job 3 credits

3403, 3404 Five Megillot 3 credits
For intermediate students.

3407; 3408 Five Megillot 3 credits
For upper intermediate students.

3409; 3410 Five Megillot 3 credits
For advanced students.

3415; 3416 Song of Songs 3 credits

3450 Ruth 3 credits

3510 Lamentations 3 credits

3659; 3660 Ecclesiastes 3 credits

3707; 3710 Esther 3 credits
Intermediate-Advanced levels.

3711; 3712 Selected Megillot 3 credits
3807 Daniel 3 credits

3857 Ezra-Nehemiah 3 credits

3909 Chronicles 3 credits

4002; 4003 Biblical Narrative 3 credits
Narrative forms in prose and historical books; readings in biblical narratives, especially of the Pentateuch, with accompanying medieval and modern commentaries.

4021; 4022 Biblical Poetry 3 credits
Poetic portions of the Bible, with emphasis on the literary qualities of these passages and the commentaries of the major exegettes.

4901, 4902 Independent Study
See Academic Information and Policies section.

4930-4939 Selected Topics in Bible

BIOLOGY (BIOL)

MAJOR: Stern College for Women
The Biology major offers three tracks: the General track; the Molecular and Cellular track; and the Neuroscience track. All three tracks require BIOL 1011C, 1012C (lecture and laboratory); CHEM 1045C, 1046C (lecture and laboratory); two courses chosen from MATH 1410 or 1412, MATH 1413, STAT 1021, and COMP 1001C or 1300C. Organic Chemistry, Biochemistry/Medical Biochemistry, and Physics are strongly recommended.

The additional specific requirements for each track follow:

**General Track**: 20-22 BIOL credits: 3207C, 3513C plus two additional 4-credit lecture/laboratory courses and either an additional 4-credit lecture/laboratory course, or two lecture-only courses. Biochemistry may count toward the required biology credits.

**Molecular and Cellular Track**: 24 BIOL credits including four 4-credit lecture/lab courses with the following distribution: 3207C, 3513C, 3521C. The remaining 12 credits may be selected from: 2601, 3230C, 3230R, 3241, 3730, 3750, 4023C and CHEM 1376R-L.

**Neuroscience Track**: 15-16 BIOL credits and 19 PSYC credits: BIOL 3830R, plus 12-13 BIOL credits chosen from 3207C, 3241, 3513C, 3728C, and either 3750 or 1376R. PSYC 1010, 2100C, 2150, 3804, 3810, and 3815. Some of the Psychology courses may also apply toward the General Education Requirements. See the Departmental Fact Sheet for details.

MINOR: Stern College for Women
BIOL 1011C, 1012C and 10-11 additional BIOL credits, at least 8 of which must be in advanced lecture/laboratory courses. Biochemistry may count toward the biology minor. Courses cross-listed between the Biology and Psychology Departments may not count toward the Biology minor.

**1005C Human Biology 4 credits**
A one-semester lecture/laboratory course for non-science majors. Students will study basic anatomy and physiology of major organ systems, and appreciate common clinical applications. Laboratory exercises will reinforce basic concepts, teach microscope skills, and supplement the lecture with exercises in genetics, histology, physiology and biochemistry. (lecture: 3 hours; lab: 2 hours) Laboratory fee.

**1011C, 1012C Principles of Biology 4 credits**
For majors. Introductory analysis of the various biological concepts at the molecular, cellular, and organismal levels. First semester: biochemistry of molecules, enzyme kinetics, cellular anatomy and physiology, cellular energetics and metabolism, cellular signaling; second semester: cellular reproduction, genetics, molecular biology, population biology, evolution, and comparative human physiology. Laboratory work, including dissections, complements the lectures. (lecture: 3 hours; lab: 3 hours) Laboratory fee.

**1376R Biochemistry - Lecture 3 credits**
Structure and function of biomolecules; kinetics and mechanism of enzymes; bioenergetics and metabolism; membrane structure and dynamics; signal transduction. Prerequisite: CHEM 1213R with a grade of C- or higher or permission of the instructor. Corequisite or Prerequisite: CHEM 1215L

**2601 Human Development 2 credits**
Focus on normal human embryonic and fetal development, as well as on congenital anomalies and birth defects. Fetal physiology and maternal-fetal interactions are presented, as well as other related topics, such as assisted reproductive technology. Prerequisite: BIOL 1012C

**2730C Human Anatomy 4 credits**
A regional approach to the study of the human body, with special focus on human locomotory anatomy. Laboratory emphasizes mammalian (cat) dissection. (lecture: 3 hours; lab: 4 hours). Laboratory fee. Prerequisite or co-requisite: BIOL 1012C or 1012Y.

**3207C Cell Biology 4 credits**
Basic architecture of cellular organelles and components; dynamics of growth, nutrition, cell cycle, metabolism, and metabolic regulation; specialized cell functions. Laboratory accompanies lectures. (lecture: 3 hours; lab: 3 hours) Laboratory fee. Prerequisite: BIOL 1012C. Prerequisite or corequisite: CHEM 1046C, or permission of instructor.
3221 Nutrition 3 credits
Clinical nutrition, directed to common medical disorders, relevant physiology, nutritional implications, and therapy. Nutrition in gastrointestinal disorders, diabetes, cancer, and AIDS are discussed.
This course does not count toward the Biology major.

3230C Immunology 4 credits
Basic principles, theories, and current problems in immunology. Emphasis on the development, functions and interplay of the various immune cells in health and disease, with particular attention to transplantation, vaccination, allergy, and autoimmunity.
(lecture: 3 hours; lab: 3 hours) Laboratory fee.
Prerequisites: BIOL 1012C.

3230R Immunology—Lecture 3 credits
The lecture portion alone of the above course.

3241 Pharmacology 2 credits
Major aspects of pharmacology: pharmacokinetics, pharmacodynamics, mechanisms of action, physiologic effects, as well as adverse effects of drugs. Course is organized by drug class according to either organ system or therapeutic category.
Prerequisite: BIOL 1012C.

3513C Genetics 4 credits
Course spans Mendelian genetics, chromosomal morphology, cell divisions, linkage, gene mapping, DNA replication, chromosome morphology, gene mutation, chromosomal aberrations, gene regulation, extranuclear genetics, behavioral genetics, epigenetics, and basic principles of biotechnology. Laboratory exercises complement lectures.
(lecture: 3 hours; lab: 3 hours) Laboratory fee.
Prerequisite: BIOL 1012C.

3521H Molecular Biology 4 credits
A comprehensive study of the gene in prokaryotic and eukaryotic systems. Analysis of the molecular structure of DNA and the chromosome, RNA structure and transcription, RNA processing, translation into proteins, structure and organization of the genes and their regulatory regions, protein-DNA interactions, gene expression mechanisms.
(lecture: 3 hours; lab: 3 hours) Laboratory fee.
Prerequisite: BIOL 3207C or BIOL 3513C or CHEM 1376.

3728C Human Physiology 4 credits
Physicochemical principles involved in life processes. Lectures and laboratory illustrate these principles in the physiological systems of humans.
(lecture: 3 hours; lab: 3 hours) Laboratory fee.
Prerequisite: BIOL 1012C.

3730 Reproductive Biology 2 credits
The course focuses on different aspects of human reproduction and reproductive health. Topics include spermatogenesis, oogenesis, menstrual cycle, fertile window and
fertilization, breastfeeding, breast and ovarian disorders, infertility, assisted reproductive techniques (e.g. in vitro fertilization).
Prerequisite: BIOL 1012C.

**3735 Biology of Women's Health 2-3 credits**
Biology of conditions affecting women’s health. Topics covered include reproduction, cardiovascular disease, osteoporosis, cancer, and autoimmune diseases. Articles from medical journals and clinical trial data are discussed.
Prerequisite: 1005C or 1012C.

**3750 Medical Biochemistry 3 credits**
Reviews major human metabolic pathways with focus on biochemical alterations that accompany a wide range of human diseases and conditions. Emphasis on advanced methods of molecular medicine for diagnosis and treatment of genetic and metabolic disorders.
Prerequisite: BIOL 1012C; CHEM 1046C. Recommended pre- or co-requisite: CHEM 1213C.

**3830C Neurobiology 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. Labs include discussion of the properties of human stem cells, neural stem cells and ways to derive, differentiate and maintain them in vitro; an overview of the approaches for deriving 3D mini human brain cultures (also called cerebral organoids) and how this technology may inform the way we study basic biology and developmental diseases.
(lecture: 3 hours; lab: 3 hours) Laboratory fee.
Prerequisite: BIOL 1012C

**3830R Neurobiology —Lecture 3 credits**
The lecture portion alone of the above course.

**4023C Microbiology 4 credits**
Topics include prokaryotic cell structure and function, microbial nutrition, growth and control, microbial metabolism, bacteriophages, and microbial genetics. Laboratory exercises complement lectures.
(lecture: 3 hours; lab: 3 hours) Laboratory fee.
Pre- or co-requisite: CHEM 1010C or 1045C.

**4901-4904 Independent Study**
See Academic Information and Policies section. Laboratory fee on an individual basis.

**4930-4936 Current Topics in Biology 1-3 credits**
Selected subjects from current developments in a variety of biological disciplines, such as kinesiology, public health, immunology and disease, medical genetics, environmental issues. 1-credit Journal Clubs are graded on a P/F basis.
Prerequisites: BIOL 1012C and permission of the instructor.

**4937 Biotechnology 2-3 credits**
Biotechnology is a field that combines biology and molecular biology with technology to develop products that impact human life in three major areas - health, food and fuel. This course will provide an overview of the history and evolution of biotechnology, the science behind biotechnology advances, ethical issues surrounding some developments, and its applications.

**4947, 4948 Research Internship - Credits depend on number of hours devoted**
Research project at an approved laboratory under the joint guidance of the head of the laboratory and a faculty member at Stern College for Women. Prerequisites: BIOL 1012C and permission of the instructor.

**BUSINESS AND MANAGEMENT (BUS)**

**MAJORS AND MINORS: Sy Syms School of Business**
Students majoring or minoring in the Business and Management program select one of the following concentrations: business intelligence and marketing analytics, finance, management, or marketing. The business core is required for each concentration. Major requirements for Business and Management are found in this publication under each concentration name.

**MINOR: For Stern College Students**
18 credits: MAN 1020, plus three additional Sy Syms business core courses and any two Sy Syms upper level (non business core) courses.

**BUS 1001 Business in a Global Environment 3 Credits**
Develops an integrated concept of issues affecting contemporary business environments. The relationship between integrated functional business operations and competitive success factors as well as monitoring measurements of organizational performance are discussed. Effective managers of the 21st century must understand a wide range of technical and social inter-relationships to be successful in the global marketplace. They must be able to integrate these relationships with the expense, performance, and time constraints of his or her area of responsibility. Course can be taken during the first or second semester of study only.

**BUS 1012 Business Communication 3 Credits**

**BUSINESS INTELLIGENCE AND MARKETING ANALYTICS (BIMA)**

**CONCENTRATION of BUSINESS MAJOR: Sy Syms School of Business**
IDS 2030, 2160, 2550, 3000, MAR 2501, and one course from MAR 2621, MAR 3318 and IDS 2640 and three additional business electives.
MINOR:
See Information and Decision Sciences

BUSINESS LAW (BLW)

BLW 2021 Ethical & Legal Environment in Business 3 Credits
Substantive law and practical issues as they relate to business; theories of jurisprudence; business ethics and Halakhah as they interface with the law and practical business decisions; the legal process; federal and state court systems; alternative dispute resolution; constitutional law; administrative agencies; criminal law and procedure; torts; products liability; contracts.

BLW 2111 Business Law I 3 Credits
Introduction to the legal process; jurisprudence; federal and state court systems; litigation and alternative dispute resolution; constitutional law; administrative law; criminal law and procedure; torts; contracts; agency formation, operation, and termination; types of business organizations, including sole proprietorship, joint venture, franchise, business trust, cooperative, general partnership, limited partnership, limited liability partnership (LLP), and limited liability company (LLC).

BLW 2112 Business Law II 3 Credits
Corporations, securities regulation; antitrust; insurance; wills, trusts, and estates; personal property and bailment; real property; landlord and tenant; environmental law; intellectual property; sales; warranties; negotiable instruments; secured transactions; creditors rights; bankruptcy.
Prerequisite: BLW 2111.

BLW 2500 Business and Jewish Law 2 Credits

CHEMISTRY (CHEM) and BIOCHEMISTRY (BC)

MAJOR: Stern College for Women
CHEM: CHEM 1045C, 1046C; 1125; 1213R, 1214R; 1215L; 1415R, 1416R; 1937 or 2-credit elective approved by department and one additional CHEM course; MATH 1412, 1413; PHYS 1031C, 1032C or 1051C, 1052C.

MINOR: Stern College for Women
CHEM 1045C, 1046C; CHEM 1125C or 1415R or 1416R; CHEM 1213R, 1214R; 1215L; and one additional CHEM course.

MAJOR: Stern College for Women
BIOCHEM: CHEM 1045C, 1046C; 1213R, 1214R; 1215L; 1415R or 1416R; 1376R; 1377L; BIOL 1011C, 1012C; MATH 1412, 1413; PHYS 1031C, 1032C or 1051C, 1052C; two courses selected from BIOL 3207C; 3230C; 3513C; 3521C.
1010C Essentials of General Chemistry 4 credits
Introduces students to the essential theories and principles of general chemistry and their application to modern society. Topics include chemical reactions, atomic and molecular structure, stoichiometry, bonding, the periodic table, acid-base theory, equilibrium, properties of gases, liquids and solids, and kinetics. The lecture course emphasizes problem-solving techniques while the laboratory portion introduces students to the methods of scientific investigation and basic laboratory techniques.
(lecture: 3 hours; lab: 2 hours) Laboratory fee.

1045C, 1046C General Chemistry 4 credits
Lecture and laboratory course for students going into the biological, chemical, health, or physical sciences. Atomic structure and stoichiometry; properties of gases, liquids, and solids; thermochemistry; quantum theory; electronic structures of atoms and molecules; chemical bonding; properties of solutions; thermodynamics; chemical equilibria including acid-base and solubility; kinetics; electrochemistry; nuclear chemistry. Laboratory experiments enhance understanding of principles taught in lectures. Emphasis on quantitative techniques; computer interfacing and spreadsheet applications. Second semester includes semimicro qualitative analysis.
(lecture: 3 hours; recitation: 1 hour; lab: 3 hours) Laboratory fee.
Prerequisite for CHEM 1046C: CHEM 1045C with a grade of C- or higher.

1125C Analytical Chemistry 4 credits
Theory and practice of classical and modern analytical chemistry. Laboratory applications of volumetric, gravimetric, and instrumental methods including potentiometry, spectrophotometry, and chromatography. One laboratory hour is a conference hour.
(lecture: 2 hours; lab: 5 hours) Laboratory fee.
Prerequisite: CHEM 1046C with a grade of C- or higher.

1213R Organic Chemistry I Lecture 3 credits
The structure, properties, synthesis and reactions of hydrocarbons and alkyl halides, stereochemistry, alkenes and their reactivity, reaction mechanisms, aldehydes and ketones and carbohydrates.
(lecture: 3 hours; recitation: 1 hour).
Prerequisite: CHEM 1046C with a grade of C- or higher.

1214R Organic Chemistry II Lecture 3 credits
Reactions of carbonyl compounds, aromatic hydrocarbons, structure, properties, syntheses and reactions of the alkenes and alkynes, alcohols and phenols, ethers and epoxides, amines and heterocycles.
(lecture 3 hours; recitation 1 hour.)
Prerequisite: CHEM 1213R with a grade of C- or higher.
Corequisite or Prerequisite: CHEM 1215L

1215L Organic Chemistry Lab 2 credits
Laboratory experiments are designed to illustrate methods of separation, purification, identification, and synthesis of organic compounds. Spectroscopic measurements and molecular modeling are included.
(Lab: 4 hours) Laboratory fee.
Prerequisite: CHEM 1213R with a grade of C- or higher.

1376R Biochemistry—Lecture 3 credits
Structure and function of biomolecules; kinetics and mechanism of enzymes; bioenergetics and metabolism; membrane structure and dynamics; signal transduction. Prerequisite: CHEM 1213R with a grade of C- or higher. or permission of the instructor. Corequisite or Prerequisite: CHEM 1215L

1377L Biochemistry Lab 2 credits
Laboratory experiments are designed to illustrate methods of purification, separation, and characterization of proteins; acid-base titration of amino acids; biomembranes; enzyme kinetics; molecular modeling, computational chemistry, and bioinformatics of biologically relevant molecules. Prerequisite: CHEM 1376R or Co-requisite: CHEM 1376R with permission of instructor.

1415R Physical Chemistry— Lecture 3 credits
Thermodynamics, chemical equilibrium, solutions, electrochemistry. Applications to biological and biochemical problems are used to illustrate general principles. Prerequisites: CHEM 1046C with a grade of C- or higher.; MATH 1412 (or higher).

1416R Physical Chemistry— Lecture 3 credits
Quantum chemistry; the Schrödinger 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: CHEM 1046C with a grade of C- or higher; PHYS 1031C or 1051C; MATH 1413.

1930; 1931 Current Topics 2 or 3 credits
Selected subjects in chemistry. Discussion of current developments, problems, and literature. Open to seniors and selected juniors majoring in chemistry. Prerequisite: permission of the instructor.

1937 Seminar in Advanced Chemistry 1 credit
Topics in all fields of chemistry presented by students and guest lecturers. Seminar meeting two hours every two weeks. Pre- or co-requisite: CHEM 1214R or permission of the instructor.

4901, 4902 Independent Study
See Academic Information and Policies section. Laboratory fee on an individual basis.

COMPUTER SCIENCE (COMP)
MAJOR: Stern College for Women
COMP 1300C, 1320C, 1504, 2115C, 2545, 3563, 3640, 3650 plus two (2) elective courses in Computer Science; MATH 1412, 1413, 2105 (MATH 1413 and 2105 may count toward the “elective category” of the General Education requirements).

MINOR: Stern College for Women
COMP 1300C, 1320C, plus four (4) additional courses in Computer Science.

1001C Introduction to Programming 4 credits
This course introduces Computer Science concepts through the development of programs in the Python programming language. Students will learn to write code relevant to problems in the sciences and humanities.
(lecture: 3 hours; lab: 2 hours)

1300C Introduction to Computer Science and Programming 4 credits
Components of a computer system; machine, assembly, and high-level languages; the Python programming language; numerical systems and coding; representation of data and instructions; data types, constants, variables; arithmetic expressions; logical expressions; assignment statement; sequencing, alternation, 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. (lecture: 3 hours; lab: 2 hours)
Prerequisite: Three years of high school mathematics and placement by examination, or a grade of C or better in MATH 1160 or 1410 or 1412.

1320C Introduction to Data Structures 4 credits
Arrays, internal searching and sorting, recursion, linked lists and linear allocation (stacks, queues, deques), bitwise operations. Elementary data structures, trees and algorithms for their manipulation, heaps, hash tables, graphs, spatial data structures, probabilistic data structure, notions of algorithm complexity, memory and data management systems. (lecture: 3 hours; lab: 2 hours).
Prerequisite: COMP 1300C.

1504 Discrete Structures 3 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. (lecture: 3 hours; recitation: 1 hour)
Prequisite: three years of high school mathematics.

2115C Computer Systems 4 credits (replaces 2113C Computer Organization and Assembly Language Programming)
The course is devoted to exploring the interaction between a program, the operating system, and the hardware. Topics include: the C programming language emphasizing pointers, explicit dynamic memory allocation, and formatted I/O; machine-level representation of programs; processor architecture; program optimization; the memory hierarchy; processes; UNIX I/O; concurrent programming. The course will have both lecture and laboratory components. (lecture: 3 hours; lab: 2 hours)
Prerequisite: COMP 1300C.

2314C Applied Linux Programming and Scripting 4 credits
Introduces Linux, with a focus on the operating system features that are accessible from the command line and programming or scripting languages such as Python or Awk. Topics will include software development in a Linux environment, pipes, redirection, process management, and shell programming. (lecture: 3 hours; lab: 2 hours)
Prerequisite: COMP 1300C.

2545 Algorithms 3 credits
Prerequisites: COMP 1320C, 1504, MATH 1412.

3563 Database Systems 3 credits
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, applications, 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.
Overview of Internet and World Wide Web information storage and retrieval systems, languages and methods.
Prerequisite: COMP 2545.

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; runtime considerations; interpretative languages, lexical analysis and parsing.
Pre or corequisite: COMP 1320C.

3650 Object-Oriented Software Design 3 credits
Large-scale software design in the Java programming language, using inheritance, polymorphism. Methodologies for developing well-designed software, with an early emphasis on testing and reliability. File I/O, exception handling, multi-threading, GUI’s and event-driven programming.
Prerequisite: COMP 1300C.

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

3780 Web Programming and Development 3 credits
The world-wide web was originally a vehicle for delivering documents. It still does this, but its most demanding current uses are as a platform for sophisticated interactive applications, replacing traditional mechanisms for distributing and installing software. Creating web applications requires different approaches from traditional applications and involves the integration of numerous technologies. This course introduces web technologies and gives the student experience creating web applications. In the process, students learn about markup languages, scripting, network protocols, interactive graphics, event-driven programming, and databases. Students also explore the way web applications can be exploited by malicious hackers, and the defensive strategies to keep hackers at bay.
Prerequisite: COMP 1300.

4901, 4902 Independent Study
See Academic Information and Policies section.

ECONOMICS (ECON)

MAJOR: Stern College for Women
BASIC TRACK 34 credits:
ECON 1010, 1101, 1201, 1421; MATH 1412 (or IDS 1456 with permission); STAT 1021 (or IDS 1031); plus 15 additional credits in ECON. Up to 6 of the 15 credits may be in Finance or Accounting courses in the Sy Syms School.

Students considering graduate study in economics are advised to take the MATH TRACK.

MATHEMATICAL TRACK 36 credits
ECON 1101, 1201, 1421; MATH 1412, 1413, 1510; STAT 1021 plus 12 additional credits in Economics. Either ECON 1010 or up to 3 credits in Finance or Accounting courses at the Sy Syms School may count toward the additional 12 credits.

MINOR: Stern College for Women
Nineteen credits. ECON 1010; MATH 1412 (or IDS 1456 with permission); plus an additional 12 credits in Economics.

1010 Principles of Economics 3 credits
The fundamentals of economic analysis with applications. Microeconomic supply and demand analysis; macroeconomics topics including money, finance, and long-term growth.

1101 Microeconomic Theory 3 credits
Application of indifference curve analysis to private decision making and public policy issues; consumer choice; production and cost; economic efficiency under perfect and imperfect competition; input market, game theory, public goods, and externalities. Prerequisite or corequisite: MATH 1412 or IDS 1456. ECON 1010 is recommended but not required.

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: ECON 1010 or 1101.

1177 Game Theory and Behavioral Economics 3 credits
A rigorous introduction to the tools and applications of game theory, including theories of rational choice and Nash Equilibrium. Additional topics include imperfect information and behavioral economics. Prerequisite: ECON 1101 or instructor's permission.

1201 Intermediate Macroeconomics 3 credits
National income accounting, national income determination models, consumption functions, investment theory, business cycle theory, stabilization policy, IS-LM analysis, aggregate demand and aggregate supply analysis, rational expectations theory, economic growth and development theories. Prerequisite or corequisite: MATH 1412 or IDS 1456. ECON 1010 is recommended but not required.

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 instruments, Federal Reserve System and financial intermediaries; national income determination models; inflation; role of money in international finance. Prerequisite: ECON 1010 or 1101.

1301 History of Economic Thought 3 credits
Ancient and medieval economic thought, mercantilists and physiocrats, classical and neoclassical schools, institutional school, Keynesian economics. Prerequisite: ECON 1010 or 1101.

1401 U.S. Economic History 3 credits
History of the American economy—major trends, institutional developments, and public policies that address key problems in U.S. economic history. Topics include the Colonial era, the Early National era, the Reunification era, the world wars and Great Depression, and the post World War II era.

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; system models.
Prerequisites: ECON 1010 or 1101 or 1201, STAT 1021.

1501 Public Finance 3 credits
Role of government in the economy; review of microeconomics; public expenditure analysis; externalities and public goods; public choice; cost benefit analysis; income redistribution and antipoverty programs; economics of social insurance and Social Security; economics of health insurance, Medicaid, Medicare, and comprehensive reform; principles of taxation; economics of excise taxes; efficiency and equity; economics of the U.S. personal and corporate income tax system; tax reform proposals; consumption taxes (sales tax, value added tax, and flat tax); wealth taxes; economics of deficit finance and the government debt.
Prerequisite: ECON 1010 or 1101 or 1201.

1601 Economic Development 3 credits
An introduction to concepts of economic development and growth, using case studies and student presentations.
Prerequisite: ECON 1010 or 1101 or 1201.

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.
Prerequisite: ECON 1010 or 1101 or 1201.

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: ECON 1010 or 1101.

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; worker alienation; history of working conditions in the U.S.

Prerequisite: ECON 1010 or 1101 or 1201.

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 healthcare system. Methodology employed by economists to determine the economic losses suffered in cases involving death and disability. Emphasis on the U.S. and its current situation. Comparison with other countries.
Prerequisite: ECON 1010 or 1101 or instructor’s permission.

2701 Managerial Economics 3 credits
How managers make decisions about strategic variables that affect firms' profits: prices, quantity and quality of final products, technology, spending on research and development, advertising, mergers and acquisitions. Also how these decisions differ under various market structures (e.g. competition, monopoly) and how they can affect these structures.
Prerequisite: ECON 1010 or 1101.

3006 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, fair competition, government regulation of the economy, social welfare, speculation.
Prerequisite: ECON 1010 or 1101.

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: ECON 1010 or 1101.

4901, 4902 Independent Study
See Academic Information and Policies section.

4930 Topics in Macroeconomics 3 credits

4931 Topics in Microeconomics 3 credits

EDUCATION (EDUC)

MAJOR: Students may choose from two tracks: Elementary (Childhood) Education (grades 1–6) and Early Childhood (birth-grade 2). Each track leads to Initial Teacher Certification in New York State. Majors must successfully complete the following
NYSTCE (New York State Teacher Certification Examinations) exams at the level specified by NY State to apply for initial NYS certification:

a) Content Specialty Test (CST), EC or Childhood depending on major.

EC majors take Multi-Subject for EC (Birth-Grade-2);
EE majors take Multi-Subject for Childhood (Grade 1-Grade 6)

b) Educating all Students Test (EAS)

c) edTPA
EC majors take Early Childhood edTPA
EE majors take Elementary Education edTPA.

Majors are required to take four training workshops: Identification and Reporting of Child Abuse; School Safety and Violence Prevention; DASA; Autism. These will be offered at SCW, Azrieli, or available online during the course of the program.

During spring semester of the sophomore year, students apply for formal admission to the teacher education programs. Prospective education majors must demonstrate the intellectual, communication, and interpersonal skills necessary for success as a teacher. The following specific requirements are required for admission to either the Early Childhood Education or Elementary Education Program:

1. Successful completion of PSYC 1010 with a minimum grade of C+ and EDUC 2130, Foundations of Early Childhood Education; or EDUC 2300, Introduction to Elementary (Childhood) Education, with a minimum grade of B-.
2. Submission of an essay stating personal aims and aspirations as a teacher.
3. Recommendation of instructor of either Foundations of Early Childhood Education or Introduction to Elementary (Childhood) Education.
4. Successful interview with a member of the education faculty other than the instructors of the courses in #3 above.
5. Successful completion of ENGL 1100, Composition and Rhetoric.

Specific course sequences and permissible electives are to be decided in consultation with an adviser. Students majoring or contemplating majoring in EDUC must meet with an adviser prior to the registration period.

**Elementary (Childhood) Education Program**: Successful completion of PSYC 1010, PSYC 1100 or 1107, EDUC 2300 and admission to the Education Program are prerequisites for the following courses:

EDUC 1210, 2301, 2302, 2303, 2304, 2307, 2930, 2940, 4003, and an EDUC elective, MATH 1010.

Elementary majors are required to complete an additional 16 hours of fieldwork as approved by the department.
Early Childhood Education Program: Successful completion of PSYC 1010, PSYC 1100 or 1107, EDUC 2130 and admission to the Education Program are prerequisites for the following courses:
EDUC 1210, 2133, 2134, 2138, 2303, 2890, 2935, 2945, 4003, and an EDUC elective, MATH 1010.

MINOR: 18 credits. EDUC 2300 or 2807 or 2130; 1210 or 1100 or 1107; 2201; 9 credits of Education electives.

1210 Educational Psychology 3 credits
(Same as PSYC 3400.) Introduction to theories and applications of principles of learning, motivation, and measurement to education. Topics include: Learning-centered and teacher-directed approaches to instruction, theories of intelligence, exceptionality, and accommodating instruction to meet individual learners’ needs, creativity, assessment, and the uses of technology to facilitate learning are investigated. This course may be taken through Yeshiva University’s Azrieli Graduate School as JED 5010. Prerequisite: PSYC 1107.

2130 Foundations of Early Childhood Education 3 credits
Introduction to early childhood education (birth-grade 2). Study of physical, social, emotional, cognitive, and aesthetic development in young children. Developmentally appropriate practices, classroom management and guidance, parent involvement, assessment, and reporting. Approaches to learning, including behaviorist, maturationist, constructivist, brain-based learning, and the Project Approach. Adapting instruction for learners with diverse needs. Case studies, problem solving, role playing, team research, and hands-on activities are among the learning strategies incorporated into this interactive course.
This course includes 25 hours of field work over the course of the semester any morning Monday through Friday.
The student will be placed by the instructor in an appropriate classroom that meets the fieldwork requirements for the course.

2133 Linguistic Tools and Literacy Development in Young Children 3 credits
This course explores development of language acquisition, creative expression, and literacy skills in young children. Students identify approaches to second language acquisition in the Hebrew classroom. Discussions focus on the examination of developmentally appropriate characteristics and behaviors of children from birth through second grade. The course addresses differentiated and standard based instruction, formative and summative assessment of growth, and the influence of parents and community on linguistic development.
This course includes 25 hours of field work over the course of the semester any morning Monday through Friday.
Each student will be placed by the instructor in an appropriate classroom that meets the fieldwork requirements for the course.

2134 Language and Literacy in Early Childhood 3 credits
Exploration of theoretical models and empirical studies related to the sequential development of language acquisition and literacy. Instructional strategies and classroom environments facilitating success in listening, speaking, reading, and writing. The role of literature in the development of literacy. Formal and informal assessments of learning. Instructional issues and methods for teaching English language learners. Exposure to methods of reading/writing differentiated instruction addressing enrichment and special populations.

Students perform 25 hours of fieldwork in a public school classrooms (grades k–2) incorporating NYS English Language Arts Standards and Balanced Developmental reading instruction.

Each student will be placed by the instructor in an appropriate classroom that meets the fieldwork requirements for the course.

2138 The Integrated Curriculum: Mathematics and Science in Early Childhood Education 3 credits
This course examines principles in the development and integration of mathematics and science in the early childhood classroom. Students will explore methods of learning and teaching in a classroom of diverse learners. Through discussion, workshops, small group work, and use of manipulatives, technology and various scientific activities, students explore number operation, patterns, geometry, and measurement. Observing, classifying, and comparing are used to demonstrate the scientific process. This course includes 25 hours of field work over the course of the semester any morning Monday through Friday.

Each student will be placed by the instructor in an appropriate classroom that meets the fieldwork requirements for the course.

Prerequisites: EDUC 2130,

2201 Classroom Instruction and Management 3 credits
An introduction to research based effective strategies for classroom instruction and management. Topics include setting up your first classroom, designing lessons and assessments, enhancing critical thinking skills, theories of motivation, and effective communication with parents and administration. Required for Education minors and Jewish education concentrators. EDUC elective for majors.

2300 Introduction to Elementary (Childhood) Education 3 credits
Survey of learning, teaching, and schooling for children (grades 1–6) from historical, philosophical, sociological, cultural, and political perspectives. Analysis of conceptions of teachers, schools, and learning based on students’ own experiences as learners and as represented in educational scholarship. Includes 36 hours of classroom observation. Required of all prospective elementary education majors.

2301 Language and Literacy in Elementary (Childhood) Education I 3 credits
Exploration of theoretical models and empirical studies related to the sequential development of language acquisition and literacy. Instructional strategies and classroom environments facilitating success in listening, speaking, reading, and writing. The role of literature in the development of literacy. Formal and informal assessments of learning. Instructional issues and methods for teaching English language learners. Exposure to
methods of reading/writing remediation and enrichment for special populations. Students perform 24 hours of fieldwork in classrooms (grades 1–6) incorporating NYS English Language Arts Standards and Balanced Literacy components. Prerequisite: EDUC 2300 or permission of the instructor.

2302 Language and Literacy in Elementary (Childhood) Education II 3 credits
Continuation of Language and Literacy in Elementary (Childhood) Education I. Study and analysis of the linguistic and educational contexts of literacy. Instructional strategies, components, and classroom environments that facilitate success within the language arts (listening, speaking, reading, and writing) in grades 1–6. The use of fiction and nonfiction trade books and the design of integrated curricula. Teaching literacy to English language learners and special populations for remediation and enrichment. Formal and informal assessments. Internet applications as a resource in literacy instruction. Students perform 12 hours of supervised fieldwork in elementary school settings.

2303 Teaching Social Studies 3 credits
Concepts, methods, and strategies for teaching social studies according to NYS Learning Standards at the early childhood and elementary level. Approaches to thematic and interdisciplinary curriculum planning, including inquiry methods for studying history, economics, civics, geography, global education, and current events -with diverse student populations. Digital and media literacy and arts based learning experiences included.

2304 Mathematics Methods and Curriculum for Elementary Teachers 3 credits
Strategies for mathematics instruction and classroom activities with diverse student groups. Exploration of current issues and trends in mathematics education, including the role of technology. Students perform 12 hours of supervised fieldwork in elementary school settings. Prerequisite: MATH 1010.

2307 Teaching Science in Elementary Schools 3 credits
Basic concepts in contemporary science curricula. Examination of NYS Learning Standards in Science for grades 1-6. Instructional techniques, materials, hands-on activities, technological applications, and curriculum design for diverse student populations.

2807 Literature of Pedagogy 3 credits
An exploration of classic and contemporary educational texts grounded in the experiences of teachers and teaching. Introduces students to core tenets of educational policy, practice and philosophy. Required for Jewish Education Majors. Elective for Early Childhood & Elementary.

2890 The Arts in Education 3 credits
A survey of concepts, skills, and methods for infusing classrooms with arts-based learning. Analysis of the role of the arts in human experience and in promoting creative thinking. Students participate in music, dance, theater, and visual art activities and learn how to design, instruct, and assess arts-based learning. Sessions with Lincoln Center
Institute and/or Yeshiva University Museum included. Required for Early Childhood. Elective for Elementary.

**2895 Introduction to Museum Education 3 credits**
An elective course for the Education major designed to introduce students to the field of museum education. Held at the YU museum, the seminar exposes students to the role of the museum educator, experiential learning practices, and instructional design in alternative contexts.

**2930 Senior Seminar in Elementary Education 3 credits**
The senior seminar course is the companion course to the full time elementary education student teaching practicum EDUC 2940. Students will have the opportunity to reflect, discuss, analyze and evaluate their immersive student teaching experiences across two placements. Students will receive direction on preparing for certification exams including edTPA, career guidance, and professional feedback from supervisors. Corequisite: EDUC 2940.

**2935 Senior Seminar in Early Childhood Education 3 credits**
The senior seminar course is the companion course to the full time early childhood education student teacher practicum EDUC 2945. Students will have the opportunity to reflect, discuss, analyze and evaluate their immersive student teaching experiences across two placements. Students will receive direction on preparing for certification exams including edTPA, career guidance and professional feedback from cooperating teachers and supervisors. Corequisite: EDUC 2945.

**2940 Elementary/Childhood Student Teaching 6 credits**
Full time student teaching (400+ hours) under the supervision of a certified teacher and a faculty supervisor. Students plan, implement and assess whole class instruction, in two student teaching placements (grades 1-3 and grades 4-6). Corequisite: EDUC 2930.

**2945 Early Childhood Student Teaching 6 credits**
Full time student teaching (400+ hours) under the supervision of a certified teacher and a faculty supervisor. Students plan, implement and assess whole class instruction, in two student teaching placements (grades Pre K-K and grades 1-2). Corequisite: EDUC 2935.

**3035 Educational Leadership and Supervision 3 credits**
Introduces students to fundamental concepts and theories of educational leadership and supervision. Topics include models of leadership, characteristics of educational organizations, women and leadership, decision making, change theory, community building, and communication practices.

**3045 Play: Life and Learning 3 credits**
Explores the power of play and its impact on social, emotional and cognitive development across the lifespan. Through the review of current research, observations
and participation in play, students will study essential elements of play in life and in learning.

**4003 Education of Exceptional Children 3 credits**
Introduction to the education of children with developmental and learning needs: course provides a survey of prevailing and preferred educational practices for children significantly handicapped by physical, sensory, neurological, intellectual, and affective problems, as well as perspectives on students with cultural, linguistic and economic diversity. Issues related to the various aspects of the delivery of services for children with disabilities, identification of student needs, use of appropriate teaching strategies as well as social and cultural construction of disability will be examined. Students will become familiar with the characteristics and learning styles of students with a broad range of backgrounds and needs. Students will gain professional knowledge and understanding of the five competency areas of the NYS EAS (Education for All Students) certification exam. Two field observations required to a special education class or facility. Required for Early Childhood and Elementary. Prerequisite: Either PSYC 1010, a minimum of 6 credits in EDUC, or permission of the instructor.

**4061 Special Education Methods: Applied Behavioral Analysis 3 credits**
A comprehensive and critical presentation of the theory, research, and methodology of Applied Behavior Analysis, with emphasis on improving learning, attention, and social behavior of children with special needs. Field observation in a special education facility.

**4901, 4902 Independent Study**
See Academic Information and Policies section.

**4930, 4931 Selected topics in Education 3 credits**

**4935, 4936 Topics in Special Education 3 credits**

**ENGLISH (ENGL)**

**MAJOR: Stern College for Women**

**English Literature Concentration:** 33 credits: ENGL 2000; and ten (10) additional ENGL literature courses, two (2) of which must be at the advanced level. One Creative Writing course and one Media Studies course may be taken in lieu of literature courses.

**Creative Writing Concentration:** 33 credits. ENGL 1800, 1900, 2000; at least one (1) advanced level literature course, two (2) ENGL creative writing courses, plus five (5) additional ENGL courses. Students in the Creative Writing Track graduating before May 2018 do not take ENGL 1900. These students take three, instead of two, Creative Writing courses and are required to submit a one-credit Creative Writing portfolio.

**Media Studies Concentration:** 35 credits. ENGL 1500, 2000, 4002; three (3) English literature courses totaling 9 credits; two (2) courses in a Media Emphasis selected from
Journalism: English 1501, 1502; or Advertising: English 1600, 1610; or Public Relations: English 1650, 1651 totaling 6 credits; four (4) elective courses in Media Studies totaling 12 credits. A one-credit internship experience is required for media studies majors.

NOTE: ENGL 1100 or 1200H is a prerequisite for all ENGL courses.

Details regarding the distribution of courses for each concentration/track above are available on the Department website and the Department Major Fact Sheet.

MINOR: 18 credits. ENGL 2000 plus five (5) additional ENGL courses chosen from Media Studies, literature and/or Creative Writing.

INTRODUCTORY COURSES

1010 Essentials of Writing 3 credits
Introduction to basic writing skills.

1100 Composition and Rhetoric 3 credits
Introduction to academic argument and the thesis/claim/evidence form of essay writing, including thesis development, writing process and revision, analytical and research methods.

1200H Freshman Honors Seminar 3 credits
Introduction to academic argument and the thesis/claim/evidence form of essay writing, including thesis development, writing process and revision, analytical and research methods. This course is open only to Distinguished Scholars, who substitute it for Composition and Rhetoric. Three hours of lecture plus conferences.

1300 Advanced Writing Skills 3 credits
Course will build on the basic principles and practices of the academic essay presented in Composition and Rhetoric by introducing students to the variety of forms of academic argument, analysis and exposition.

1500 Media Studies 3 credits
This course defines “media” broadly as including oral, print, photographic, broadcast, cinematic, and digital cultural forms and practices. The course looks at the nature of communication, the transformation from consumers into producers, the functions of media, and the institutions that help define media’s place in society.

1501 News Writing and Reporting 3 credits
Fundamentals of journalism, featuring news writing skills and reporting techniques.

1502 Feature Writing 3 credits
Focuses on the skills and techniques to write articles or stories for newspapers, magazines or news websites.

1503 Columns and Editorials 3 credits
Advanced writing seminar. Focuses on the skills and techniques of writing unsigned editorials and signed columns for newspapers, magazines, and Web-based publications.

1520 Broadcast Journalism 3 credits
Focuses on the skills and techniques to report, produce, and deliver news for radio and/or TV and/or other broadcast media.

1600 Advertising Copywriting 3 credits
Writing copy for various kinds of promotional materials.

1610 Advanced Advertising Copywriting 3 credits
Advanced work in writing copy, leading to a Portfolio.
Prerequisite: ENGL 1600

1650 Public Relations 3 credits
Fundamentals and techniques of public relations in both business and nonprofit organizations; practical project evaluation and experience.

1651 Developing Effective Messages 3 credits
Advanced course in forms of publicity writing and oral presentation. Emphasis on effective messages.

1720-28 Topics in Media Studies 3 credits
Topics Vary.

1790-98 Internship in Communications 1–3 credits depending on hours devoted
Apprenticeships in media and communications, under supervision, in recognized professional offices: graphic arts; editing; audiovisual media technology; photography; public relations; advertising; newspapers; magazines; radio programming and continuity; network and cable television; book publishing. May not replace a course. 100 hours per credit up to three credits. See Chair for details.

1800 Introduction to Creative Writing 3 credits
A creative writing course that introduces students to multiple genres. Presupposes no prior experience with college-level creative writing. Students are encouraged to take this course prior to other creative writing classes, and they are required to take it before taking an advanced creative writing class. Open to all, though individual professors may alter the class and its requirements for students in the creative writing concentration.

1801 Writing Fiction 3 credits
A creative writing course introducing students to the writing of fiction. Students read examples from short stories and novels, learn about the elements of plot, character development and setting, and write and revise their own stories. Set up as a writing workshop, the course enables students to regularly share their work with their teacher and their peers.

1802 Writing Creative Nonfiction 3 credits
A creative writing course introducing students to the writing of creative nonfiction. Students read examples of the essay from a range of time periods and write and revise their own. Set up as a writing workshop, the course enables students to regularly share their work with their teacher and their peers.

1805 Reading and Writing Poetry 3 credits
Through discussion, written analysis and creative writing exercises, this course explores poetry from various perspectives, stressing elements such as imagery, metaphor, voice, and musicality, including both traditional and modern approaches to poetic form.

1811 Writing for Television 3 credits
Students will learn about the craft of television writing through analysis of existing shows and by writing an episode. Discussion and critique workshop.

1812 Screenwriting 3 credits
The course teaches the process of learning to apply one’s vision to a cinematic medium within a specific story genre. Topics: dramatic subject matter; developing the scene; plot construction; creating and developing characters; dialogue; writing subtext and subplots; how to market and sell a script.

1815 Writing Women’s Lives 3 credits
A seminar in memoir writing, developing narrative techniques that convey how the self is reinvented and refined through experience. Topics include the self and its roots, the self and community, growth, and coming of age.

1900 Advanced Creative Writing 3 credits
A course that builds upon the skills established in Introduction to Creative Writing and other CW courses. The course will lead students to create a portfolio of their work. Pre-req: ENGL 1800 or any prior course at SCW that counted toward Creative Writing.

1920, 1921 Topics in Creative Writing 3 credits
Topics vary. May be repeated for credit.

2000 Ways of Reading 3 credits
Who decides what texts mean? Are some interpretations better than others? Does the author’s intention matter? How does language work? In this foundational course, we will study texts of the cultures around us, as well as literature. Required for the English Major and Minor.

2003 Survey of British Literature I 3 credits
History of British literature and culture focusing on major works from the earliest literature through Donne.

2004 Survey of British Literature II 3 credits
History of British literature and culture focusing on major works from Milton through 1870.
2005 Survey of British Literature III 3 credits
History of British literature and culture from 1879 to the present.

2006 Survey of American Literature I 3 credits
Development of American literature through 1870.

2007 Survey of American Literature II 3 credits
Development of American literature, 1870 to the present.

2510 American Literature and Culture 3 credits
This course asks you to think about literary texts as engaging with their culture. Drawing upon both literary texts and other kinds of cultural documents (for example: film, photographs, newspapers), you will look at American literature in a cultural context and explore the way literary texts and “nonliterary” texts can speak to one another. The topic will change depending on the instructor.

2520 Literature and Culture of the Roaring Twenties (then and now) 3 credits
A detailed examination of the cultural history of American in the 1920s. Explores concepts such as the “Jazz Age,” “The Lost Generation,” and the idea of modernity in relation to a variety of media, including film, novels, poetry, history, and music.

2580 American Jewish Literature 3 credits
Literature by Jewish writers in the United States from the late nineteenth century to the present. Focuses on how these authors describe immigration and Americanization, explore the conflicts between tradition and modernity, portray the Jewish family, deal with the legacy of the Holocaust, conceive of Jewish self-identity, and negotiate Jewish stereotypes. Authors include Abraham Cahan, Anzia Yezierska, Henry Roth, Isaac Bashevis Singer, Philip Roth, Bernard Malamud, Saul Bellow, Tillie Olsen, Grace Paley, Woody Allen, and Wendy Wasserstein.

2590 African American Literature 3 credits
The course offers an overview of literature written by African Americans from the mid-19th century to the present. Readings include works of autobiography, fiction, poetry, and non-fiction by: Harriet Jacobs, Booker T. Washington, W.E.B. DuBois, Zora Neale Hurston, Langston Hughes, Richard Wright, Ralph Ellison, Martin Luther King Jr, Rita Dove, and Toni Morrison.

2600-2602 Topics in Historical Approaches to Literature 3 credits
May be repeated since the subject matter varies from term to term.

2654 Victorian Literature and Culture 3 credits
Poets, essayists, and novelists of the 1830-1880’s in relation to the social and intellectual milieu, including Dickens, Eliot, Browning, Tennyson, Ruskin, the Pre-Raphaelites, and less well-known writers.

2700 Introduction to Film 3 credits
Studies how meaning is produced in cinema and teaches how to analyze a diverse range of filmmaking practices. Covers key concepts and theories of cinema as an aesthetic medium and as a social practice.

2702 Writing on Film 3 credits
Close analysis of the composition or structure of a selection of films with the aim of developing students’ critical faculties for thinking and writing about film.

2710 Introduction to Fiction 3 credits
This course will introduce students to basic elements of fiction, such as perspective, character, plot setting, and narrative time. Students will read examples of different forms of fiction via short stories and novels, as well as basic introductions to theories of fictional narrative.

2720 The American Short Story 3 credits
Traces the development of the American Short Story, early nineteenth century to the present. Authors may include Nathaniel Hawthorne, Edgar Allen Poe, Herman Melville, Charles Chestnut, Katherine Anne Porter, F. Scott Fitzgerald, William Faulkner, Shirley Jackson, Philip Roth, Bernard Malamud, Raymond Carver, Dorothy Parker, Joyce Carol Oates, Leslie Silko.

2740 Classic Modern Novels 3 credits
Intensive study of five landmark novels, some in translation, by authors who have explored new territory in modern fiction.

2750 The Graphic Novel 3 credits
Explores the graphic novel through a variety of genres, such as memoir, history and adventure.

2770 Introduction to the Essay 3 credits
This course treats a range of essay forms and considers some of the standard rhetorical devices used in writing nonfiction: persuasion, comparison and narration. We begin by reading classic essays by Montaigne, Daniel Defoe, and Samuel Johnson and end with a selection of literary non-fiction works by writers like Joan Didion, Annie Dillard, Tom Wolfe and John McPhee. In the course, you will be expected to write several short imitation essays in the style of an author we read. Your final project will be to craft, in several drafts, a long essay.

2779 Fact and Fiction: American Literary Nonfiction 3 credits
The development since World War II of alternative forms of journalism in America literary nonfiction, new journalism, personal journalism, the nonfiction novel. Considers why some journalists in the 20th century intentionally have departed from standard practices valued by mainstream journalists, forgoing the objective stance to include their own involvement in the story. Connection between form and subject matter and what makes a piece of journalism. Authors include Capote, Agee, Hersey, McCarthy, Mitchell and Ross as well as more contemporary writers.
2791 Children’s Literature 3 credits
An historical study of children's literature from seventeenth century fairy tales to writers of today such as Maurice Sendak.

2792 Comedy and Satire 3 credits
Theories of and studies in comedy and satire, from their classical roots through the present. Authors covered may range from Aristophanes to Jon Stewart/Stephen Colbert.

2793 Fiction and Film: A Translation 3 credits
Translating the language of literature into the language of film. A study of 19th and 20th century literature in a contemporary visual context. Writers may include Austen, Dickens, Hardy, James, Wharton, and Forster.

2795 Magic Realism and Literature of the Uncanny 3 credits
Intensive study of five landmark novels, some in translation, by authors including Franz Kafka, Gabriel Garcia Marquez, and others. Focuses on work that explores new territory in modern fiction incorporating elements of fantasy, magic, and the surreal.

2800 Literature and Culture of the City 3 credits
Instructors may focus on how writers have responded to intensifying urbanization in the United States or Britain and the role of literature in defining a distinctly “urban” culture or on how a particular city such as New York or London has been represented in literature or culture over time. Usually the focus will be on one city. Counts toward the minor in American studies when focus is on American urban scene.

2820 Literature and the Environment 3 credits
Introduces central literary environmental texts and debates within the field of eco-criticism. Examines how the environment, be it natural or humanly constructed, informs our language and literature, and how literature can influence attitudes towards nature and its preservation (and/or conservation.)

2830 (previously 3110) Renaissance Drama by Authors other than Shakespeare 3 credits
Consideration of the plays in the contexts of Renaissance and modern theatrical and dramatic conventions. Examination of writers such as Marlowe, Beaumont and Fletcher, Jonson.

2834 (previously 3102) Shakespeare: Tragedies and Romances 3 credits
Consideration of selected works by Shakespeare, focusing on the tragedies and romances.

2835 (previously 3101) Shakespeare: Histories and Comedies 3 credits
Consideration of selected works by Shakespeare, focusing on the histories and comedies.

2841 Arthurian Legends 3 credits
Examines the myth of King Arthur from its origin in the Middle Ages to its later retellings in Victorian and modern literature as well as in contemporary film. Studies the changing representation of Arthurian characters, and the way this legend has been used to discuss chivalry, patriotism, romantic love, and social ideals.

2880 Parents and Children 3 credits
The portrayal in literature of the splendors and miseries of having children; of generational conflict; of people’s changing attitudes, first as young children, then as parents of children and as middle-aged children of aging parents.

2901 Introduction to Women’s Studies: Theory and Practice 3 credits
This course introduces some of the issues and debates that characterize “Women’s Studies.” Women’s Studies itself is an academic discipline that grew out of the 20th century women’s movement. It draws on many different disciplines in the humanities and the sciences in its efforts to describe and understand women’s lives. (May be taught by faculty in other departments; required for the minor in Women’s Studies).

2902 Women and Literature 3 credits
Writings by and about women from 1800 to the present; novels, stories, poems, and nonfictional prose discussing changing attitudes toward women’s roles in education, marriage, society, etc. May be offered in various forms: eg. American Women Writers; British Women Writers. May include works by Jane Austen, George Eliot, Virginia Woolf, Doris Lessing, and contemporary writers.

2920-25 Topics in Literature: Introductory Level 3 credits
May be repeated since subject matter varies from term to term.

2926 Myth and Folklore 3 credits
An introduction to Greek, Roman, and Scandinavian mythologies and their function in works of literature ranging from Homer to Gaiman; the course includes a study of the classic fairy tales and their folkloric elements.

2936 Monstrous Imagination: Then and Now 3 credits
A study of literary representations of the monstrous "other" in its various guises across a range of texts, periods, and genres. May combine psychoanalytic and sociological approaches to the "monster" with literary analysis. Readings may begin with classical and medieval monster stories (in translation) and end with contemporary stories such as Rowling's Harry Potter or Meyer's Twilight series.

2950 Classic Texts/Contemporary Revisions 3 credits
In this course students read classic works alongside later texts written in response, with an aim to consider the ways writers reimagine and respond to canonical texts.

2960 Representations of the Holocaust 3 credits
Studies twentieth and twenty-first century shapings of the meanings of the Shoah through specific disciplines, discourses, institutions and media which may include: history, literature, memoir, film, museums, monuments.
2967-2970 Interdisciplinary Approaches to Literature 3 credits
Literature and another discipline, such as philosophy, politics, psychology, science, or the arts. May be repeated, since the subject matter varies from term to term.

2971 Literature and Social Change 3 credits
Literary explorations with a historical or sociological slant. May focus on one of the following topics: literature and war, literature and revolution, literature of the underclass, the immigrant experience in America, colonialism and imperialism.

ADVANCED COURSES

3210 The Rise of the Novel and the Representation of the Self 3 credits
Asks how the eighteenth- and early nineteenth-century English novel contributed to the creation of the modern character (i.e. the modern "self") by representing the subjectivity of their protagonists. Considers contemporary theories of human nature and identity and current theories about the development and structure of the novel form.

3351 Modernism 3 credits
Modernist texts in English focusing on fiction and poetry from 1900-1930. An introduction to the intellectual and technological backgrounds of modernism and their relationship to modernist themes in the visual arts. Writers may include Conrad, Stein, Joyce, Lawrence, Pound, Eliot, Yeats, Hemingway, Faulkner, Fitzgerald, and Hurston

3525 Transcendentalism 3 credits
Intensive examination of essays, lectures, poetry and cultural contributions of American Transcendentalist writers.

3600 Brave New World: Global Literature in English 3 credits
Contemporary writers whose linguistic and cultural roots are in West and South Africa, Asia, and the Caribbean.

3675 American Playwrights and Their Plays
Intensive study of important dramatists and theatrical movements of the 20th century. Through reading and analyzing plays and relevant theoretical and historical essays, attending performances, acting out portions of plays, and writing a research paper, students actively participate in a multidimensional examination of American playwrights such as Eugene O’Neill, Arthur Miller, David Mamet, August Wilson, and Wendy Wasserstein.

3731 The Development of the British Novel I 3 credits
Traces the emergence of the novel as a literary form and provides an introduction to Defoe, Richardson, Fielding, Sterne, Burney, and Austen; the novel of sentiment, the novel of sensibility, the gothic novel, and the novel of manners.

3732 The Development of the British Novel II 3 credits
Focuses on the English novel in the 19th century and may include work by the Brontës, Dickens, Eliot, Trollope, and novels of sensation by writers like Collins and Braddon.
3733 The Development of the British Novel III 3 credits
Treats twentieth-century experiments in fiction. Authors may include Conrad, Joyce, Lawrence, Woolf, Lessing, Byatt, Coetzee, and Rushdie.

3792 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.

3920-21 Topics in Literature: Advanced Level 3 credits
May be repeated, since the subject matter varies from term to term.

3922-23 Major Authors 3 credits
Works by a maximum of four major authors, usually English, American, or both. This course may be repeated; subject matter varies.

4002 Communications/Media Exit Project 1 credit

FINANCE (FIN)

CONCENTRATION of BUSINESS MAJOR: Sy Syms School of Business
FIN 1408, 2409, 2505, either 2521 or 3510, two additional finance electives and any three additional business electives.

MINOR: For Sy Syms School of Business students
Any three upper level finance courses (beyond FIN 1001).

MINOR: For Stern College Students
ACC 1001, FIN 1001, IDS 1131*/1456, and any two additional finance courses and one Business CORE course.

*Any student who has taken STA 1021 (and received a grade of C or better) may take an additional Sy Syms business core course instead of IDS 1131.

FIN 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, the terms and rights available to stockholders and bondholders, and the corporate financial structure. Covers sources and uses of capital, debt versus equity, present value techniques, valuation, capital asset pricing, risk and return and uncertainty. Prerequisite IDS 1001 and Corequisite ACC 1001.

FIN 1408 Corporate Finance 3 Credits
Introduction to the principles and techniques of corporate financial management; including financial analysis, firm value optimization and valuation models, capital structure, stock valuation leverage, dividend policy, the cost of capital, mergers IPOs
and bankruptcy. Problems and applications will use commercially available computer software.
Prerequisite: FIN 1001.

**FIN 2409 Advanced Corporate Finance (Capstone) 3 Credits**
Focuses on the corporate finance function and decision-making process. Examines advanced and specialized topics in finance. 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. Lectures and assignments may utilize case presentations and independent research and writing.
Prerequisite: FIN 1408 required; IDS 1456 recommended.

**FIN 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, treasuries, options, and futures are defined and analyzed.
Prerequisite: FIN 1001.

**FIN 2508 Entrepreneurial Finance 3 Credits**
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.

**FIN 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. Drawing heavily on out-side readings from respected authors in the fields of finance and securities, students are required to research and produce a detailed report that includes an analysis of a particular industry and several firms within the industry.
Prerequisite: FIN 1408 or FIN 2505.

**FIN 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 utilizing Web/online resources, including databases and software.
Prerequisite: FIN 2505 required; IDS 1456 recommended.
FIN 2828 Behavioral Economics (Same as MAN 2828 and MAR 2828)
This course is an introduction to behavioral economics and its applications. The course will focus on the statistical analysis of experimental data using non-parametric techniques (no previous statistics coursework required), and the application of experimental methods to identify behavioral regularities related to risk preferences, the endowment effect, overconfidence, framing, probabilistic assessment and other areas of decision-making. Students are required to complete a final experimental design project, which will include motivating theory, novel research hypotheses, proposed analytics, and implementation details.

FIN 3510 Futures and Options 3 Credits
Comprehensive overview of options and futures and other derivative assets. The market microstructure for derivatives and its evolution, trading applications; exchange operations. Trading mechanics, hedging and speculation, price forecasting, testing and optimizing trading systems, performance spreading, and option pricing theory. Students implement futures pricing, hedging, and valuation using simulation and real-time, Web-based database resources.
Prerequisite: (FIN 1408 or 2505) required; IDS 1456 recommended.

FIN 3604 International Finance and Accounting 3 Credits (Same as ACC 3604)
Analysis of special topics in international finance, including international capital flows, international accounting, theories of foreign exchange-rate determinations, Eurocurrency and Eurobond markets, and integration of multinational markets.
Prerequisite: ACC 1002, FIN 1001.

FIN 3720 Fixed Income Securities 3 Credits
Fixed income markets are much more important than equity markets. This course presents basic, non-complex, principles of pricing models for fixed income securities as well as public policy issues related to fixed income markets. Securities covered include government securities, municipal debt, corporate and junk bonds as well as some derivatives, mortgage backed and asset backed securities. The impact of the recent crisis on fixed income markets is analyzed.
Prerequisite: FIN 1001.

FIN 3851 Financial Statement Analysis 3 Credits (Same as ACC 3851)
Methods of communicating information about financing and operating activities of corporations, and techniques for analyzing and evaluating information.
Prerequisite: ACC 1002, FIN 1001.

FRENCH (FREN)

1101–1102 Elementary French 3 credits.
Essentials of oral expression, listening comprehension, and basic reading and writing skills. 1101 is for students with no background. 1102 is for students with less than two years of high school French.
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 FREN 1102. Students with three years of high school French may enter 1202 with permission of the instructor.

HEBREW (HEBR)

Jewish studies majors may concentrate in Hebrew. Students are assigned to the appropriate Hebrew level based on a Hebrew Placement Exam. See the description of the Jewish studies major.

1101, 1102 Elementary Hebrew I, II 3 credits
Introduction to speaking, reading, and writing in Hebrew; focus on the foundations of grammar and acquisition of frequently used words in daily life.

1103, 1104 Lower Intermediate Hebrew I, II 3 credits
Review and expansion of basic skills in speaking, reading, and in Hebrew; continue to develop basic grammatical skills and enlarge vocabulary; begin to develop reading comprehension skills and writing normative Hebrew sentences.

1105, 1106 Intermediate Hebrew I, II 3 credits
Continue to enlarge vocabulary and strengthen speech; reinforce the rules of grammatical structures of Hebrew and continue to develop reading comprehension skills; begin to develop understanding of the use of grammar for understanding Hebrew context and the art of writing a normative Hebrew paragraph.

1107, 1108 Intermediate Hebrew III, IV 3 credits
Review the rules of grammatical structures of Hebrew with focus on their utilization for reading comprehension and developing writing skills while reinforcing Hebrew speech; introduce students to unedited Hebrew texts (journalistic and scholastic) and continue to enlarge their vocabulary.

1205, 1206 Upper Intermediate Hebrew I, II 3 credits
Introduce students to modern Hebrew literature – poetry and prose – with a focus on the history of Eretz Yisrael since the early 20th century; develop the skill of poetic text analysis using grammatical rules and word implicit meaning; develop the skill of writing a critical paragraph in Hebrew; continue to reinforce speech.

1233, 1234 Conversational Hebrew 1 credit
Development of fluency in speaking Hebrew. For upper intermediate-advanced level students.

2657 Modern Hebrew Prose 3 credits
The Hebrew short story and novel from 1880 to the present.
2669 The Hebrew Short Story of the 20th Century 3 credits
Detailed examination of the short story genre, its main characteristics, motifs, themes, and techniques as reflected in the works of various 20th century writers.

2679 Modern Hebrew Poetry 3 credits
Major poems of modern masters from 1880 to the present.

2687 Foundations of Renaissance Literature 3 credits
The works of Ahad Ha’am, Bialik, and Mendele.

2697; 2698 Contemporary Hebrew Literature 3 credits
Hebrew prose and poetry since 1948; literary analysis of selected readings of the major authors.

2709; 2710; 2719; 2720 Topics in Modern Hebrew Literature 3 credits
Each semester examines a specific area, such as literature of the Holocaust, war and peace in contemporary Israeli literature, portrayal of the Arab in Israeli literature, the kibbutz in Israeli literature, Zionism in Hebrew literature.

2801-2820 Studies in Individual Authors and Their Works 3 credits

2927 Biblical Themes in Modern Hebrew Literature 3 credits

4931-4934 Selected Topics 3 credits

HEBRAIC STUDIES (HEST)

This designation indicates block transfer credit granted for courses taken in the Rebecca Ivry Department of Jewish Studies or through the S. Daniel Abraham Israel Program.

Rebecca Ivry Department of Jewish Studies, Stern College for Women
Offers a comprehensive four year program in Hebrew language and literature and Jewish culture and civilization on the elementary, intermediate, and advanced levels. Students develop a reading, writing, and speaking knowledge of Hebrew; become acquainted with the basic texts of ancient, medieval, and modern Hebrew literature (including biblical literature with classical and modern commentaries, and Jewish legal literature); and study Jewish history and Jewish philosophy.

1303 through 1396 Hebraic Studies 3–6 credits each
Block credits transferred to the BA/BS transcript for courses taken in this department. This block of courses consisting of three courses which total at least 8 credits is referred to as CORE.

S. Daniel Abraham Israel Program of Yeshiva University
1400 through 1499 Hebraic Studies
Block credits transferred to the BA/BS transcript for courses taken in the University’s S. Daniel Abraham Israel Program. Up to 27 credits per year are granted at Stern College for Women or Sy Syms School of Business.

HISTORY (HIST)

MAJOR: Stern College for Women
Thirty-three credits: HIST 1101, 1102, either 3001 or 3002 (capstone course) plus 24 additional HIST credits, of which 6 must be in American History and 3 in non-Western history. Courses that cover both the U.S. and the non-Western world may be counted either as U.S. or as non-Western history, but not as both. With the permission of the senior professor, up to 6 credits in Jewish history (in excess of those used to meet the Jewish studies requirement and distribution) may be counted toward the major.
A maximum of 6 AP History credits with a score of 4 or 5 may apply toward the major. Majors are encouraged to master at least one language in addition to English and Hebrew. Knowledge of the relevant language is essential for M.A. and PhD programs in History.

MINOR: Stern College for Women
Eighteen credits: HIST 1101, 1102, plus 12 additional HIST credits, of which 3 credits must be in American History.
With the permission of the senior professor, up to 3 credits in Jewish history (in excess of those used to meet the Jewish studies requirement and distribution) may be counted toward the minor.

1101 The Emergence of Europe 3 credits
Major themes in the cultural, political, and social evolution of the West from antiquity to the Reformation.

1102 The Transformations of Europe 3 credits
Survey of European history from the age of absolutism to the European Union of today.

1201; 1202 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.

1301; 1302 The Middle East I, II 3 credits
Provides the background for understanding current Middle East politics, the relationship between the West and the Middle East, and the resurgence of religion in the region. First semester: the emergence and the development of Islamic society; political, social, religious, and economic history of the Middle East from the 7th through the 17th century. Second semester: history, culture, and politics of the modern Middle East from the end of the 17th century to the present.
1401 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.

1501 The Contemporary World: Main Currents in Global History Since World War II 3 credits
Focuses on the dominant military, economic, and cultural role of the United States in international affairs. Topics include World War II, the Grand Alliance and its dissolution; the advent of the nuclear age and arms race; origins of the cold war in Europe; the Chinese Revolution and the Korean War; decolonization and wars of national liberation in Asia and Africa; Latin America; the Middle East; the fall of the Soviet Union; terrorism and ethnic conflict; and the global economy in the Internet era.

2101 Medieval Society 3 credits
History of European politics, society, and religion in the Middle Ages, from the 5th to the 14th centuries, with particular focus on selected primary sources from the period and how historians view them today.

2104 The Renaissance and Reformation 3 credits
European thought and culture in the age of transition, from the 14th to the 17th centuries.

2107 Old Regime and the French Revolution 3 credits
History of France from the death of Louis XIV to the coup d’état of Napoleon. The first half of the course examines the social and political structures of the Old Regime, the crisis of the French monarchy, and the failure of reform; the second half focuses on the emergence of a democratic political culture during the Revolution, the process of radicalization, and the recurrent problem of how to bring the Revolution to a close.

2111 Eastern Europe: 1914–1989 3 credits

2124 History of the Book: From Gutenberg to Google 3 credits
Focuses on some of the major themes in the history of the book during the age of the wooden hand press (1460 to ca. 1800): the transition from manuscript to print and the changing physical appearance of books, publishing and the book trade, copyright and censorship, and the history of reading. The final section of the course examines the world of books in the age of Google, comparing the internet revolution of today with the Gutenberg revolution of the early-modern period.

2127 The European Enlightenment 3 credits
Examines works by some of the major figures of the eighteenth-century Enlightenment, such as Voltaire, Diderot, Rousseau, Hume and Kant. Considers the institutional settings in which Enlightenment ideas took shape, the media through which they were disseminated, and the public debates that they provoked.

2128 Origins of Democratic Political Culture 3 credits
Examines the emergence of a democratic political culture in the late eighteenth century, focusing on the three great revolutions of the Atlantic world: the revolt of the American colonies against the British monarchy, the French Revolution, and the Haitian slave rebellion. Emphasis is placed on the contrasts between modern and ancient forms of democratic political life.

2141 The Holocaust 3 credits (Same as JHIS 1485)
Fate of European Jewry between 1933 and 1945. Topics include the rise of the Jewish question in 19th Century Europe; World War I and its consequences; causes of the Weimar Republic’s collapse; Nazi seizure of power; Nazi Jewish policies; ghettoization in Nazi Europe; conception and implementation of the Nazi Final Solution; life in the ghettos; the Judenrat; and Jewish resistance.

2144 Polish-Jewish Relations in Modern Times 3 credits (Same as JHIS 1454)
Polish-Jewish relations in the period 1764 to the present, viewed within the larger context of the disappearance of Poland from the political map of Europe in the late 18th century, the persistence of Polish statelessness throughout 19th century, and the influence of this development on the lack of Jewish social integration into Polish society. Second part of the course examines the thriving Jewish cultural and spiritual life in the independent Polish state, the Holocaust, post-World War II relations, and the current renewal of Jewish life in Poland.

2149 Topics in European History 3 credits
Topics may vary by semester.

2151 Nationalism in Modern European History 3 credits
Rise and spread of national movements in 19th century Europe. Emphasis on the transition from liberal nationalism in the first half of the 19th century to ethnolinguistic nationalism in the final decades prior to World War I.

2154 History of Modern Russia 3 credits
History of Russia from the era of Peter the Great to the death of Stalin after World War II.

2157 Modern Poland: From Subjugation to Independence, 1772–1989 3 credits
History of Poland from the loss of sovereignty at the close of the 18th century to the East European revolutions of 1989. Topics include 19th century attempts to regain independence; the Polish question during World War I; independent Poland between the two world wars; destruction of Poland in World War II; Communist Poland after World War II; and the return to freedom in the tumultuous year of 1989.
2165 Europe Since 1945 3 credits
This course traces the history of continental Europe after 1945, with special reference to France, Germany, and the Soviet Union.

2204 The US Civil War and Reconstruction: 1850–1877 3 credits

2207 The New Deal and the Great Depression 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 traditional political and social structures.

2210 The United States: 1941–Present 3 credits
Domestic politics and international relations of the United States from World War II to 9/11. The origins and impact of the cold war; the civil rights struggle; Vietnam War; Watergate and the imperial presidency; economic and social change.

2213 American Politics and Culture in the 1960s 3 credits
The Vietnam War, student, civil rights, and women’s movements; rise of youth culture; and the origins of the contemporary conservative movement.

2225 Social Movements in American History 3 credits
Examines social movements and protest politics of 19th and 20th centuries. The course explores the ideology, political structures, mobilization, identity, and empowerment strategies of movements such as abolitionist movement, women’s movement, populism, the KKK, movements of the era of the great Depression, movements of the 1960s, and the New Right. A comparative survey of contemporary movements which erupted in 2011 in Europe, in the US, and the Middle East (including Israel), will conclude the survey.

2231 The History of New York City 3 credits
New York City from colonial times to 21st century and its status as a postindustrial city. Focuses on following themes: the people of the city; its immigrants; its neighborhoods; its cultures; the post-World War II trend of urban renewal and its effects; the rise and fall and resurgence of some neighborhoods; urban politics; the status of the city facing the economic and political trends of a globalizing world.

2234 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.

2237 African American History 3 credits
History of African Americans from their origins in Africa to their current situation in the United States. Focuses on the institution of slavery, showing how it changed over time and how African American culture evolved; the ways in which African Americans coped with the violence and discrimination they faced in the South after the Civil War as well as their struggle for racial equality in the 20th century; cultural achievements of African Americans in the North and the South.

2240 American Jewish History 3 credits (Same as JHIS 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.

2251 History of American Foreign Policy 3 credits
U.S. 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.

2301 Ethnic and Religious Minorities in the Middle East 3 credits
Examines the process of change of the Middle East from a religious and ethnic mosaic to an increasingly homogeneous region. Topics include the process of conversion to Islam and the relationships between the Islamic regimes of the Middle East and their religious and ethnic minorities, focusing on Christians and Jews, and the effects of modernization, European colonialism, and nationalism on the minorities in the region.

2303 History of Palestine 3 credits (same as JHIS 1505)
History of modern Jewish settlement in Palestine under the Ottoman rule and the British Mandate, until the establishment of the state in 1948. Topics include: encounters and relations of the yishuv with Palestinian Arabs and the ruling powers; the social, economic and ideological factors that shaped the institutions and the national aspirations of the yishuv and of the Palestinian community.

2304 Modern Israel 3 credits (same as JHIS 1511)
Survey of Israeli society, culture and politics from 1948 to the present. Topics: Israel and the Palestinian national movement; global political factors that shaped the Israeli-Palestinian conflict; the social, cultural, and political divisions of Israeli society, and the challenges facing Israel in the twenty-first century.

2315-2318 Selected Topics in Middle East History 3 credits
Topics are selected from among various periods in Middle East history and may vary from semester to semester.

2520 Atlantic World 3 credits
Before they became "the United States," the American colonies belonged to a broader, multinational and heterogeneous collection of colonies which historians term "the Atlantic World." This course will consider the transatlantic connections that defined this "world": economic, social, political, and how it transformed over the seventeenth and eighteenth centuries.
2601 Legal History 3 credits
Law is the matrix through which society operates, from the earliest city-states to the nations of today. This course examines in broad terms the development of legal systems, the relationship of subject/citizen and the state, criminality, and domestic vs. international justice from the historical perspective.

2604 Piracy and the Nation State 3 credits
Examines the history of piracy from the perspective of states' relationships with it. From the Roman Republic to present-day Somalia, how states have dealt with pirates off their shores teaches us a great deal about them: what their priorities and values are, the centrality of trade, what they consider "criminal," and how they wish to be perceived by other states. Whether as "enemies of the human race" or useful adjutants to navies, perceptions of piracy have often defined how a state regards itself.

2607 International Crimes: Atrocity and State Response in the 20th Century 3 credits
Explores the emergence and incidence of genocide and other crimes against humanity in the 20th century. Emphasis will be placed on how the international community has responded, the use of the trial and other forms of retributive justice, and the emergence of international law after the Second World War.

2613 Law and Dispute Settlement in Pre-Modern Europe 3 credits
Examines the development of legal systems and the methods used to settle disputes in pre-modern Europe, by comparing the various ways in which laws were made in Europe from the Greeks to the sixteenth century, and reading a variety of records to see how disagreements were settled in practice in this period.

2701 Topics in the History of Modern Science 3 credits
Introduces students to the historical development of the modern physical and life sciences, as well as introducing them to the social and historical analysis of science. Explores how science has come to enjoy the enormous prestige and support it has in modern western society, and how science takes place as an activity embedded in and drawing upon broader culture.

2801 Greek Civilization 3 credits
Political, social, and cultural history of Greek civilization from its origins in the second millennium BCE to the period of Roman domination. The rise and fall of nations and leaders; daily life in ancient Greece; development of Greek literature, art, and philosophy; interaction of Greeks with other peoples of the ancient Mediterranean world (especially the Phoenicians, Persians, Jews, and Romans).

2811 Roman Civilization 3 credits
Social, political, cultural, religious, and economic history of Rome from the city’s foundation in the 8th century BCE to the fall of the Western Roman Empire in the 5th century CE. Particular emphasis on the late Republic and Early Empire. Examination of different types of evidence available for the study of ancient Rome (literary,
archaeological, numismatic, papyrological, epigraphic, and artistic) and current resources and problems in the field of Roman history.

2821 Archaeology 3 credits
An introduction to world pre-history, with an emphasis on the rise and fall of social and political complexity. Topics range from cave paintings and early farmers to the first civilizations in Mesopotamia, Egypt, China, and Central and South America.

2901 The Civilizing Process in the West 3 credits
Examines the civilizing process in the West across roughly five-hundred years, from the Renaissance to the early 20th century. Topics include: shifting standards of polite behavior, especially as regards table manners; the "olfactory revolution" and the elevation of visual over other modes of sensory experience; instinctual renunciation and curbs on aggression; western critics of the civilizing process such as Rousseau and Nietzsche; and how the ideas of "civility" and "civilized" have been used as markers of social distinction, both within western societies and between western and non-western societies.

2904 Women, Culture, and Society in the Modern World 3 credits
Interdisciplinary course examining the changing historical, cultural, and literary concepts of the subject of women, focusing on Europe and America in the 19th and 20th centuries. A topical approach is used to explore women’s lives through important literary sources, historical documents, and scholarly materials.

2909 Media Revolutions: From Scroll to Screen 3 credits
Surveys the history of media from the papyri scrolls of ancient Greece to the internet of the digital age.

2913 Immigrant Nations: US and Israel 3 credits
A comparative survey of immigrant, ethnic, and racial experience in the 20th and 21st centuries with particular attention to patterns of similarities and differences of the diverse groups within each society.

2914 History of Emotions 3 credits
Introduction to the historical study of emotions, with particular emphasis on the emotion of fear.

3001 Ideas of History I: 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 1101 or permission of the instructor.

3002 Ideas of History II: 19th Century to the Present 3 credits
Examines works by some of the most influential historians from the early 19th century to the present—e.g. Leopold von Ranke, J. Huizinga, Fernand Braudel, E. P. Thompson, and Natalie Davis—in order to survey the range of approaches to the study of the past.
4001 Senior Thesis 3 credits
Seniors majoring in history may opt to write a research paper on a topic of their choice to meet the exit requirement. See a faculty advisor for details.

4901; 4902 Independent Study
See Academic Information and Policies section.

4930 Topics in History 2-3 credits
Selected topics in History.

INFORMATION AND DECISION SCIENCES (IDS)

CONCENTRATION of BUSINESS MAJOR: Sy Syms School of Business
See Business Intelligence and Marketing Analytics.

MINOR: For Sy Syms School of Business students
Any three upper level information and decision sciences courses (beyond IDS 1020).

MINOR: For Stern College Students
IDS 1020, 2030, 2160, two additional IDS courses and one business core course.

IDS 1001 Business Algebra 3 credits
This course provides a review of computational and problem-solving skills. Included is a presentation of a broad scope of fundamental mathematical concepts in applied mathematics relevant to accounting, finance, management, and marketing, with examples drawn from different business disciplines.

IDS 1131 Statistics for Business 3 Credits
This course includes modern statistical methods as a basis for decision making. Topics include fundamentals of probability, discrete and continuous distributions, descriptive statistics, and inferential statistics. Credit is not given for STA 1021. Pre- or Co-requisite: passing Mathematics Proficiency Exam or IDS 0001.

IDS 1300 Business Calculus 3 Credits
Applications of calculus for solving business problems. Topics include functions, limits, techniques of differentiation, marginal analysis, higher-order derivatives and
optimization, integration, and applications of these techniques as they relate to business. Prerequisites: IDS 1001, 1131.

IDS 1400 Regression Analysis 1 Credit
Linear Regression Analysis: Topics include the simple linear regression model, inference in regression analysis, sensitivity analysis, multiple regression analysis, and introduction to time series analysis.

IDS 1456 Quantitative Methods for Management 3 Credits
Part 1. Applications of calculus for solving business problems. Topics include functions, limits, techniques of differentiation, marginal analysis, higher-order derivatives and optimization, integration, and applications of these techniques as they relate to business.
Part 2: Linear Regression Analysis: Topics include the simple linear regression model, inference in regression analysis, sensitivity analysis, multiple regression analysis, and introduction to time series analysis.
Prerequisites: IDS 1001, 1131.

IDS 1601 Operations Management 3 Credits
Introduction to the study of operations: Operations management studies the systematic planning, design, execution, control and improvement of the various procurement, production, storage, and shipping processes involved from the time a product or service is designed until its delivery to the end customer. Students benefit from learning the role of operations as a functional area of the firm and understanding fundamental processes involved in both manufacturing and service organizations. Topics include process analysis, capacity management, optimization via linear programming, project management, queuing models, inventory and supply chain management, and revenue management.
Prerequisites: IDS 1131, 1456.

IDS 2030 Business Analytics and Programming 3 credits
Today, more than ever, businesses must learn to leverage their data as a strategic resource. This course introduces the tools and techniques used by data scientists, marketers and analysts to understand, manipulate and present the data that is the lifeblood of enterprises today. Students will learn modern techniques related to data manipulation, storage, retrieval and computer programming.
Prerequisite: IDS 1020.

IDS 2160 Decision Models 3 Credits
This course introduces the basic principles and techniques of applied mathematical modeling via spreadsheets for managerial decision making. Students learn to use some of the more important analytic methods focusing on spreadsheet modeling. Students learn to develop models that can be used to improve decision making within an organization; sharpen their ability to structure problems and to perform logical analyses; translate descriptions of decision problems into formal models and investigate those models in an organized fashion; identify settings in which models can be used effectively and apply modeling concepts in practical situations. The course emphasizes model formulation and interpretation of results and is aimed at undergraduate students with
little prior exposure to modeling and quantitative analysis, but it is appropriate for all students who wish to strengthen their spreadsheet and quantitative skills. The emphasis is on models that are widely used in diverse industries and functional areas, including finance, operations, and marketing.
Prerequisites: FIN 1001, IDS 1020, IDS 1131, MAR 1001.

**IDS 2250 Design & Development of Web Based Systems 3 Credits**
It is imperative for practically all types of businesses today to incorporate a digital strategy into their line of business. To that end it is important for even non-technical decision makers to be familiar with the various issues that go into creating and maintaining a digital presence. The course covers a survey of different approaches and components that go into building and maintaining modern websites. The aim of this course is not to make students into software developers but rather to introduce students to the various topics and components that relate to web development so that they can be intelligent and informed about these topics when interacting with more technical members of the team. Students will learn and practice the skills needed to create their own rudimentary but functional websites.
Corequisite: IDS 1020.

**IDS 2255 E-Commerce 3 Credits** (Same as MAR 2255)
This course provides an understanding of e-commerce and its impact on firms, industries and markets. In a few short years, the Web has already had a large impact on how we shop, read, conduct business, learn, and consume information like music and art. The fundamental architecture of information processing within the firm is changing as new Internet technologies appear. Internet technologies are also having a broad impact on the management of firms. How well firms are able to master these new technologies and business models is having an important impact on their overall success. This course describes the technologies used in electronic commerce; discusses the resulting changes in organization structure, industry, and societal behavior and seeks to understand the forces that bring about these changes.
Prerequisites: IDS 1020, MAN 1020, MAR 1001

**IDS 2500 Financial Information Systems 3 Credits**
This course discusses how modern financial markets function as a network of systems and information flows, and how to use information technology for decision making in trading and managing customer relationships. The first part of the course describes how systems facilitate various kinds of payments and settlement mechanisms, enable financial markets such as exchanges and ECNs, and support inter-institution communication. The second part of the course describes how traders, analysts, and risk managers use systems to cope with the vast amount of data on the economy, markets, and customers that flow into their systems each day.
Prerequisites: ACC 1001, FIN 1001, IDS 1020

**IDS 2550 Business Intelligence and Consumers Insights 3 Credits** (Same as MAN/MAR 2550)
Data mining is a powerful new technology with great potential to help companies focus on the most important information in the data they have collected about the behavior of
their customers and potential customers. It discovers information within the data that queries and reports can’t effectively reveal. This course explains what data mining is, how it can be used, and how it can help a company leapfrog its competition. Internet based applications such as social media, website usage, tracking and online reviews as well as a firm’s own activities and business processes, are discussed as potential sources of data.
Prerequisite: MAR 1001, IDS 1020, IDS 1131, IDS 2030

IDS 2560 Data Management
This course surveys several approaches and tools for working with data. This includes tools to help the data scientist automate extracting the data from native data stores, manipulating and converting the data to other formats and presenting data using effective visualizations.
Prerequisites: IDS 2030.

IDS 3000 Business Intelligence Capstone 3 Credits
This capstone course focuses on the integration of various methods and technologies a data scientist and a marketing analyst encounters. Students are required to complete a project simulating a real world data science environment. Specifically, students need to query databases, organize data, apply appropriate statistical models, utilize various software packages, and finally present their findings within a marketing context. Many of these steps will require computer programming.
Prerequisites: IDS 2030, and IDS 2550. It is recommended that the students also complete MAR 2501 and MAR 3318 before taking this course.

IDS 3600 Strategic Information Technology Management 3 Credits
This course explores information technologies to enhance strategic goals of the organization. It examines the relationship between broad strategic goals and organizational mission, and specific tactical IT responses. It also considers strategic importance of ERP, CRM, corporate intelligence, and knowledge sharing.
Prerequisites: IDS 1020, ACC 1001, ACC 1002, MAN 1001, MAN 1020, MAR 1001, BLW 2021/2111, IDS 1601, FIN 1001, IDS 1131.

JEWISH EDUCATION (JEDU)

MAJOR: Stern College for Women
The Jewish Education concentration is a track within the Jewish Studies major. Interested students must meet with the Program Director and be accepted into the track. 39 credits above the Jewish Studies requirement: 15 credits of Jewish Studies with at least 9 credits in BIBL and the remaining 6 credits in either JHIS or JPHI or JUDS; EDUC 2301, 2807; JEDU 2319; 3215, 3216, 3218, 3225, 3226: Teaching Bible (3 credits-AGS).

The following courses, which may apply toward the General Education Requirements, are also required: EDUC 2201, 2807 and an Education elective; plus PSYC 1010 and 3400 (same as EDUC 1210). Some of the above courses may be taken in the Azrieli Graduate School (AGS).
Proficiency in Hebrew is required.
Details of the Jewish Education track are available from the Program Director.

A joint bachelor's-master's program in Jewish Education is offered together with Azrieli Graduate School of Jewish Education and Administration. Interested students should consult the Office of the Registrar. Courses in Jewish Education are not part of a program designed for the preparation of teachers in the public schools and are, therefore, not applicable to certification by the New York State Education Department.

2312 through 2320 Methods and Materials in Teaching Specific Subjects 2-3 credits

2314 Teaching Bible 3 credits

2319 Teaching Jewish Studies 3 credits  
This class is taken in the spring of the junior year and includes 2 hours fieldwork and 2 ½ hours of seminar/week.

3215 Seminar and Fieldwork 1 credit  
This class is taken during the spring of the sophomore year and includes fieldwork on five Fridays and one hour of seminar/week.

3216 Seminar and Fieldwork 1 credit  
This class is taken during the fall of the junior year and includes 30 hours of fieldwork and 1 ¼ hours of seminar/week.

3218 Seminar and Fieldwork 1 credit  
This class is taken during the fall of the senior year and includes 30 hours of fieldwork and 1 ¼ hours of seminar/week.

3225 Jewish Education Student Teaching 6 credits  
Full-time student teaching under the supervision of a master teacher and a faculty supervisor. Students plan and implement whole class instruction, and create a portfolio that will document their growth as a teacher.
Corequisite: JEDU 3226

3226 Senior Seminar in Jewish Education 3 credits  
For Jewish Education student teachers. Analysis of the student-teaching experience. Topics include promoting student motivation, classroom management strategies, student diversity, working with parents and school personnel, trends in educational reform, and sources for professional development, including Internet resources. Students create a professional portfolio documenting their development as teachers over the course of the program.
Corequisite: JEDU 3225
JEWISH STUDIES (JST)

MAJOR: Stern College for Women
Twenty-seven credits of advanced level Jewish Studies courses beyond those used to meet the Jewish Studies requirement of 6 semesters Core and 14 additional credits, AND the distribution requirement of 15 credits of BIBL; 15 credits of JUDS; 5 credits of JHIS; 5 credits of JHI and HEBR language.

Major courses may be taken only in 1 or 2 areas of concentration (Bible, Hebrew, Jewish history, Jewish philosophy, Judaic studies). At least 3 courses (9 credits) must be completed in the chosen area(s) of concentration. With Departmental permission, one course may be taken outside the one or two area(s) of concentration if it relates to the other courses in the major.

Stern College offers Joint Bachelor-Masters Programs with both the Bernard Revel Graduate School and the Azrieli Graduate School. With written permission Jewish studies courses at these graduate schools may count toward the requirements for the major. Interested students must apply for such permission by filing either the Joint Bachelor-Masters Programs Application or the Request to Take a Graduate Course for Undergraduate Credit Only form. These forms are available at the Office of the Registrar.

Students interested in the Jewish Education track of the Jewish Studies major should see the catalog entry “Jewish Education (JEDU)".

Required courses for each concentration of the Jewish Studies major:
BIBL
 a) one course in medieval or modern exegetical methods (e.g., BIBL 1081-1097)
 b) one course in a specific book of Tanakh.

JUDS:
 a) one text-based course (JUDS 1510-1512; 1531-1534; 1839-1854; 1871-1874 or a JUDS class with the “beit midrash” designation)
 b) one in-depth halakhah course.

JHIS:
 a) one course from the Medieval period.
 b) one course from the modern period.

JPHI:
 a) one course from the Medieval period.
 b) one course from the modern period.

MINOR: Stern College for Women
Fifteen credits of advanced level Jewish Studies courses beyond those used to meet the Jewish Studies requirement of 6 semesters Core and 14 additional Jewish Studies credits, and the distribution requirement as above. Courses may be taken only in one or
two of the following areas: Bible, Hebrew, Jewish history, Jewish philosophy, Judaic studies. No courses may be outside the area or areas of concentration.

**JEWISH HISTORY (JHIS)**

**MAJOR: Stern College for Women**

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

1001; 1002 Survey of Jewish History 3 credits

Political, social, economic, and cultural currents in the history of the Jews from the Second Commonwealth through modern times. First semester: Second Commonwealth, late Roman period, and Jewry in the orbit of Islam; second semester: the Jews in medieval Christendom; the development of modern Jewish history.

1101 Ancient Jewish History 3 credits

History of the Jews to the end of the First Commonwealth, 586 BCE.

1105; 1106 History of the Ancient Near East 3 credits

First semester: third millennium BCE to 1300 BCE; second semester: 1300 BCE to 586 BCE.

1201; 1202 Classical Jewish History 3 credits

History of the Jews from the Second Commonwealth through the Talmudic period (586 BCE to 500 CE).

1231 The Apocrypha 3 credits

Survey of the Apocrypha, with intensive analysis of one or more of those books; historical and literary aspects.

1233 Early Jewish Movements 3 credits

Systematic survey of the Sadducees, Essenes, Dead Sea Sect, Sicarii, Zealots, and other movements during the period of the Second Commonwealth; their relationship to biblical, Apocryphal, and rabbinic Judaism as well as other movements, notably Christianity.

1235 The Dead Sea Scrolls 3 credits

Archaeological, historical, and literary aspects of the scrolls; their place in the development of the Hebrew language and Jewish thought.

1301; 1302 Medieval Jewish History 3 credits

The Jewish people from the Gaonic period (500 CE) to the Expulsion from Spain (1500).

1321 Jews in Medieval Christendom 3 credits
Jewish settlement in Italy and Franco-Germany; Rashi and the Tosafists; law and society; the Crusades and the origins of medieval anti-Semitism; Christian Spain—disputations, conversions, and Expulsion; the Jews in the Renaissance.

1323 Origins of European Jewry 3 credits
Origins of Ashkenazic and Sephardic Jewry.

1325 Responsa Literature as a Source of Jewish History 3 credits
Social and economic life of the Jews in Germany, from the 11th to the 14th centuries, as reflected in Responsa.

1327; 1328 The Tosafists 3 credits
The literary and juridical creativity of Ashkenazic scholarship in the 12th and 13th centuries.

1329 History of Halakhah 3 credits
Historical development of post Talmudic legal decision making.

1330 History of Minhagim 3 credits
Historical development of post Talmudic customs and practices.

1332 History of Medieval Biblical Exegesis 3 credits
Leading trends and figures in Biblical interpretations during the 12th and 13th centuries.

1335 The Jews of Medieval Spain 3 credits
The Jews in Christian and Moslem Spain; the Golden Age; the Expulsion.

1344 Jewish Christian Polemics 3 credits
The debates between Christians and Jews in the Middle Ages based on differences in philosophy and biblical exegesis; their role in shaping and reflecting social and legal relationships.

1371; 1372 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.

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; 1416 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).

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

1471; 1472 Jews in the Modern Arab World 3 credits
Communal, economic, and cultural history of the Jews in Moslem lands in modern times. Prerequisite: JHIS 1002.

1485 The Holocaust 3 credits (same as HIST 2141)
Fate of European Jewry between 1933 and 1945. Topics include the rise of the Jewish question in 19th century Europe; World War I and its consequences; causes of the Weimar Republic's collapse; Nazi seizure of power; Nazi Jewish policies; ghettoization in Nazi Europe; conception and implementation of the Nazi Final Solution; life in the ghettos; the Judenrat; and Jewish resistance. Under the Eli and Diana Zborowski Professorial Chair in Interdisciplinary Holocaust Studies.

1486 Holocaust and Rescue 3 credits
The nature of Nazi anti-Semitism; the evolution of the Holocaust to the mass murder of Europe's Jews; Jewish responses and the various rescue attempts, including non-Jews who risked their lives to save Jews.

1501; 1505 History of Palestine 3 credits (same as HIST 2303)
History of modern Jewish settlement in Palestine under the Ottoman rule and the British Mandate, until the establishment of the state in 1948. Topics include: encounters and relations of the yishuv with Palestinian Arabs and the ruling powers; the social, economic and ideological factors that shaped the institutions and the national aspirations of the yishuv and of the Palestinian community.

1511; 1512 Modern Israel 3 credits (same as HIST 2304)
Survey of Israeli society, culture and politics from 1948 to the present. Topics: Israel and the Palestinian national movement; global political factors that shaped the Israeli-Palestinian conflict; the social, cultural, and political divisions of Israeli society, and the challenges facing Israel in the twenty-first century.

1575; 1576; American Jewish History 3 credits
The Jewish community in the United States: its development from earliest times; immigration and settlement; social, economic, and communal development; contribution to
American civilization; the modern and contemporary scene. American Jews and the Holocaust, State of Israel, civil rights movement, Russian Jewry, inner-city tensions.

1577 Jewish Religion in America 2-3 credits

1803 Historiography 3 credits
Seminar on the great Jewish historians; their philosophy, method, and works from ancient times to the present.

1811 Messianic Movements in Judaism 3 credits
History of various Messianic movements among the Jewish people from the 1st to the 19th centuries.

1829; 1830; 1831; 1832; 1833; 1834 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. JHIS 1829; 1830 covers the classical period; 1831; 1832, medieval period; 1833, early modern period; 1834, modern period.

4901, 4902 Independent Study
See Academic Information and Policies section.

4930-4939 Topics 2-3 credits
Selected topics in Jewish history.

JEWISH PHILOSOPHY (JPHI)

MAJOR: Stern College for Women
Jewish studies majors may concentrate in Jewish philosophy. See the description of the Jewish studies major.

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. For beginning, elementary, and intermediate level Jewish studies students.

1135, 1136 Survey of Jewish Philosophy 3 credits
Survey of Jewish thought on selected present day religious, moral, and ethical issues; discussion and analysis based on traditional and contemporary writings.

1203; 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 Theories of Evil 3 credits
The problem and definition of evil as understood in Talmudic literature and medieval and modern Jewish philosophy.

1224 Theories of Prophecy 3 credits
Survey of medieval Jewish sources on the nature and scope of prophecy.

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.

1611-1614 Medieval Jewish Philosophy 3 credits
Selected topics and readings from Albo, Bahya, Crescas, Yehudah HaLevi, Maimonides, Saadiah, and relevant background study (NeoPlatonism, Kalam, Aristotelianism).

1626 Philosophy of Saadiah Gaon 3 credits
Analysis of the Hebrew text of the Emunot veDe’ot, emphasizing Saadiah’s treatment of philosophical problems; comprehensive study of Saadiah’s philosophy from the historical perspective.

1647; 1648 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 Philosophy of Maimonides 3 credits
Selections from the philosophical works of Maimonides: Sefer HaMada of Mishneh Torah, the Eight Chapters, the Guide for the Perplexed.

1651; 1652; 1653; 1654 Philosophy of Maimonides 3 credits
More detailed studies of the material covered in JPHI 1650.

1801, 1802 Jewish Thinkers of the 18th Century 2-3 credits

1803; 1804 Jewish Thinkers of the 19th 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.

1813; 1814 Modern Jewish Thought 3 credits
Introduction to the philosophical works of the great Jewish thinkers of the past two centuries. Selected readings.

1815; 1816 East European 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.

1817; 1818 Philosophy of Zionism 3 credits
Major idea, approaches and texts during the 19th and 20th centuries.

1843; 1844 Contemporary Jewish Philosophy 3 credits
History and development of major currents in contemporary Jewish thought, including Orthodoxy, Reform, Conservatism, Reconstructionism, and neoHasidism.

1845; 1846 Philosophy of Rav Soloveitchik 2-3 credits
Readings in Rabbi J. B. Soloveitchik’s writings. The lecture supplies background material and contrast in general and Jewish philosophical reflection.

1903 Belief and Religious Commitment 3 credits
Role of philosophy and the liberal arts (particularly literature) within a religious intellectual worldview; medieval views of Jewish philosophers (Albo, Bahya, Saadia); 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 nonJewish 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 Halakah, their biblical origins, and their root meanings in Jewish philosophy. For intermediate and advanced students in Jewish studies.

1917; 1918 Topics in Jewish Philosophy 3 credits
Selected topics including faith and doubt, dogma, free will, Providence, the Holocaust, State of Israel.

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.

1923 Dogma in Jewish Thought 3 credits
Medieval and modern Jewish philosophical views of the concept of dogma.

1924 Dogma: The 13 Principles 3 credits
The articles of faith of Maimonides and other leading medieval Jewish thinkers.

4901, 4902 Independent Study
See Academic Information and Policies section.
4931; 4932 Selected Topics 3 credits
Analytical study of special topics, issues, and movements in Jewish philosophy.

JUDAIC STUDIES (JUDS)

MAJOR: Stern College for Women
Jewish studies majors may concentrate in Judaic studies. Judaic studies courses are offered on the elementary, intermediate and advanced levels. Students are placed on the proper level by oral assessment.

1000 Introduction to Judaism 3 credits
One-semester survey of the material covered in Introduction to Judaism.

1001, 1002 Introduction to Judaism 3 credits
Basic Jewish concepts; analysis of the fundamental principles of Jewish legal history and thought.

1023; 1024 Jewish Legal Values and Concepts 3 credits

1201; 1202 Jewish Liturgy 3 credits
History, order, and structure of the prayer book. For intermediate students.

1203; 1204 Jewish Liturgy 3 credits
Same as 1201; 1202. For advanced students.

1210 Topics in Jewish Liturgy 3 credits
Study of the law, history and spiritual meanings of The Weekday Service and its component parts. For students on the Intermediate level.

1350 Introduction to Jewish Beliefs 3 credits
Nature of sin of Adam and Eve in the Garden of Eden, Kabbalah of kashrut, purpose of Israel, reincarnation, sources on Mashiach and the End of Days, Free Will and the Resurrection of the Dead.

1371; 1372 Hasidism 3 credits
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.

1381; 1382; 1383; 1384 Mussar 3 credits
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.
1400-1499 Jewish Laws and Customs
Jewish laws, customs, and concepts; their history and development.

1401, 1402 3 credits
Introduction to sources, texts, terms, and basic concepts of Jewish law.

1403 Basic Jewish Concepts: Jewish Life Cycle 2-3 credits
For lower intermediate level students.

1404 Basic Jewish Concepts: Shabbat 2-3 credits
Philosophy of Shabbat-for lower intermediate level students.

1405 Basic Jewish Concepts: Jewish Law 2-3 credits
Introduction to Jewish Oral Law-for lower intermediate level students.

1406 Basic Jewish Concepts: Jewish Holidays 2-3 credits
Rosh haShanah, Yom haKippurim, Sukkot-for lower intermediate level students.

1407 Basic Jewish Concepts: Prayer 2-3 credits
Philosophy of Prayer-for lower intermediate level students.

1410-1420 Women and Jewish Law 2-3 credits

1424 3 credits
Visiting the sick and mourning.

1431 3 credits
Kashrut—for elementary-level students.

1433 3 credits
Kashrut—for intermediate-level students.

1435--1438 3 credits
Kashrut—for advanced students.

1439 3 credits
Home and family—for elementary-level students.

1440 3 credits
Home and family—for intermediate-level students.

1443 2–3 credits
Home and family I (Hilkhot Niddah I); Jewish family purity sources—for upper intermediate-advanced students.

1444 2–3 credits
Home and Family II (Hilkhot Niddah II); Jewish family purity sources—for upper intermediate-advanced students.

1445-1448 2-4 credits  
Women in Jewish Law—for Upper Intermediate-Advanced level students.

1449, 1450 3 credits  
Marriage: issues and laws relating to dating and marriage; divorce—for advanced students.

1451 2-4 credits  
Marriage in Halacha II—for advanced level students.

1453, 1454 2-4 credits  
The Sabbath—for intermediate-level students.

1455; 1456; 1457; 1458; 1459; 1460 2-4 credits  
The Sabbath—for advanced students.

1461, 1462 2-4 credits  
The Festivals—for elementary-level students.

1463, 1464 2-4 credits  
The Festivals—for intermediate-level students.

1465; 1466; 1467; 1468 2-4 credits  
The Festivals—for advanced students.

1470S through 1479S Sephardic Laws and Customs  
Laws and customs of major Sephardic communities as compared to those of Ashkenazic communities.

1471S 2-3 credits  
Origins and history of Sephardic minhagim.

1472S; 1473S 2-3 credits  
The Sephardic life cycle.

1474S; 1475S 2-3 credits  
Sephardic Sabbath and Festival minhagim.

1483; 1484 3 credits  
The Jewish life cycle: laws and customs of major ritual observances and ceremonies in Jewish life.

1485; 1486; 1487; 1488 3 credits
Daily life in the home and synagogue: the laws and customs of Tefillin, Kriat haTorah B’Tzibbur, Berakhot Rishonot, Berakhot Aharonot.

1489; 1490; 1491; 1492 3 credits
Interpersonal relationships (such as ethics, charity, slander, revenge, usury).

1493; 1494 3 credits
Ideological issues—for intermediate-level students.

1495; 1496 3 credits
Ideological issues—for advanced students.

1501; 1502; 1503; 1504 Topics in Jewish Ethics 3 credits

1507; 1508 Topics in Jewish Law 3 credits

1510 Development of Jewish Law 3 credits
One-semester survey of the material covered in 1511, 1512.

1511; 1512 Development of Jewish Law 3 credits
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.

1531; 1532; 1533; 1534 Readings in Maimonides 3 credits
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.

1561; 1562 Mishnah Berurah 3 credits
Selections from the Shulhan Arukh, with Mishnah Berurah commentary.

1571 through 1576 The Individual in Society 3 credits
Contemporary social and political problems such as ecology, poverty, welfare, and self-incrimination; emphasis on Jewish legal sources directly applicable to these issues.

1571 The Individual and Society 3 credits
Capital punishment; torture; immigration; privacy; and confidentiality.

1572 The Individual and Society 3 credits
Environmental Issues; and testimony by Jews in non-Jewish courts.

1573 The Individual and Society 3 credits
War in Jewish law and ethics; the status of non-Jews in Jewish law

1574 The Individual and Society 3 credits
Land for peace; mesirah (collaboration with oppressors); and redeeming hostages.
1577 through 1610 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.

1577; 1578; 1579; 1580 3 credits
Survey covering several areas.

1581 Medical Ethics 3 credits
Survey.

1582 Jewish Medical Ethics 3 credits
Abortion; contraception; artificial insemination; surrogate motherhood; and cloning.

1583 Jewish Medical Ethics 3 credits
Euthanasia; definition of death; autopsies; and organ donation.

1586-1589 Impact of technology on laws of Sabbath and Festivals 3 credits
Topics may vary each semester.

1591 Topics in Jewish Civil Law 3 credits
The following topics, among others, 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.

1601 Act and Emotion 2-3 credits
Judaism demands engagement with mitzvot at two levels: performing the act and being personally transformed by the experience. How do these two emphases interact with one another? We will focus on mitzvah observance in general with an emphasis on prayer and the holidays.

1602 Modern Jewish Problems: Selected Topics 2-3 credits
- The Status of Jerusalem in Christianity, Islam and Judaism
- Must I Love Every Jew? The Status of Non-Observant Jews in Jewish Law and Tradition
- The Ethics of Truth-Telling in Jewish Law and Tradition
- Judaism and General Culture: Meaning and Significance
- Commemorating the Holocaust: Yom Hashoah or Tisha B'Av?

1603 Women and Jewish Ritual 2-3 credits
Talmud Torah, Bat Mitzvah, Kaddish, Birkhat Hagomel, Mechitzah, Women's Prayer Groups.

1604 Modern Jewish Problems: Selected Topics 2-3 credits
- The Contemporary Theological Significance of the State of Israel: “Reshit Zemihat Geulatenu?”
• Christianity, Islam and Judaism: History, Religion and Contemporary Significance
• The Mitzvah of Killing “Amalek”: Halakhah, Morality and Modern Times
• On the Morality of the Patriarchs: Must Biblical Heroes be Perfect?

1820 through 1829 Mishnah
Text with classical and modern commentaries.

1821 Women in the Mishnah 2-3 credits

1839; 1840 Introduction to Talmud 3 credits
Introduction to Talmudic text and commentaries. For intermediate and advanced students in Jewish studies.

1841; 1842 Introduction to Talmud I; II 3 credits

1843; 1844 Intermediate Talmud 3-4 credits
Selected Talmudic texts with medieval and modern commentaries; emphasis on methodology. For advanced students in Jewish studies.

1845; 1846; 1847; 1848 Advanced Talmud 3–5 credits
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.

1851; 1852; 1853; 1854; 1855 Selected Rabbinic Literature 2–3 credits
Selections from fundamental rabbinic texts of the medieval and early modern periods.

1861; 1862; 1863; 1864 Modern Rabbinic Personalities 3 credits
Leading rabbinic figures during the 19th and 20th centuries.

1871; 1872; 1873; 1874 Selections from Midrash 3 credits
Readings from aggadic literature. For advanced students in Jewish studies.

1890 Topics in Talmud 3 credits
Topics and level may vary.

4901, 4902 Independent Study
See Academic Information and Policies section.

4930-4939 Topics in Jewish Law 3 credits

MANAGEMENT (MAN)

CONCENTRATION of BUSINESS MAJOR: Sy Syms School of Business
MAN 2110, 3015, 3720, 3780, two additional management electives and three additional business electives.
MINOR: Sy Syms School of Business
Any three upper level management courses (beyond MAN 1020).

MINOR: For Stern College Students
MAN 1020, 3015, 3780, two additional management courses and one business core course.

MAN 1020 Managing in the Global Environment 3 Credits
This course focuses on the development of the skills and knowledge required for successful managerial performance in today’s global environment. With an emphasis on self-assessment and application, this course provides an in-depth examination and practice of the core managerial competencies. Topics covered include problem solving, communication, empowerment and motivation, managing conflict, power and influence, and performance improvement. A major learning objective is to recognize the relationship between integrated functional business operations and competitive success factors as well as monitoring measurements of organizational performance. Effective managers of the 21st century must understand a wide range of technical and social inter-relationships to be successful in the global marketplace. Students will gain analytical and behavioral tools that will equip them to work in complex global work environments.

MAN 2110 Organizational Behavior 3 Credits
This course is directed toward the attainment of three interdependent objectives: 1) to develop an understanding of organization effectiveness as a key element of strategy implementation in complex organizations, 2) to understand how organizational planning, design, control, and human resource decisions are interdependent and critical to building and sustaining successful organizations, and 3) to develop a sensitivity to the "realities" of organizations in "real-world" situations. These include how decisions affect individuals in organizations and their consequent commitment to implementation efforts. Prerequisite: MAN 1020.

MAN 2370 Human Resources 3 Credits
Exploration of human resources management as a facilitator of the effective use of personnel to achieve corporate objectives. Covers the link between human resources management and strategic planning, employee recruitment, development, and impact of equal opportunity employment programs; human resources forecasting, training programs, performance evaluation, direct and indirect compensation, and comparable worth. Prerequisite: MAN 1020.

MAN 2510 Turnaround Business Strategy 3 Credits
A turnaround situation refers to those companies whose financial performance indicates that the company will fail in the foreseeable future unless short-term corrective action is taken. Addresses key ingredients that characterize a successful turnaround, and describes what turnaround practitioners need to do to rescue a distressed company. Course content includes crisis stabilization, stakeholder management, strategic focus
and more. Added focus will be on the Organizational Behavior side of the firm - the people issues the organization faces. Additionally it will describe how leadership is provided by turnaround practitioners throughout the turnaround process. Prerequisite: MAN 1020 or MAN 3780.

**MAN 2550 Business Intelligence and Consumers Insights 3 Credits** (Same as MAR/IDS 2550)
Data mining is a powerful new technology with great potential to help companies focus on the most important information in the data they have collected about the behavior of their customers and potential customers. It discovers information within the data that queries and reports can't effectively reveal. This course explains what data mining is, how it can be used, and how it can help a company leapfrog its competition. Internet based applications such as social media, website usage, tracking and online reviews as well as a firm’s own activities and business processes, are discussed as potential sources of data. Prerequisites: IDS 1020, IDS 1131, MAR 1001.

**MAN 2621 Applied Research 3 Credits** (Same as MAR 2621)
Provides students with both research and managerial perspectives in the development and application of marketing research tools and procedures. It describes the development of research designs from problem formulation to analysis and submission of the research report. It also covers the analysis of techniques in marketing research, such as focus groups, experimental design, surveys, sampling, statistical analysis, and reporting. Cases are utilized in the development of methods and in specific areas of application. SPSS or an equivalent statistical software is used. Prerequisites: IDS1131, MAN 1020, MAR 1001.

**MAN 2711 Venture Capital, Financing & Investments 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, MAN 1020.

**MAN 2818 Hospitality & Tourism (Same as MAR 2818)**
This introductory course will present an overview of the structure and financial performance of the hospitality industry. The focus of the course will be on business strategy, marketing and operations - and how these disciplines are used to address customer needs in light of rapidly changing global, cultural and economic trends.

**MAN 2828 Behavioral Economics (Same as FIN 2828 and MAR 2828)**
This course is an introduction to behavioral economics and its applications. The course will focus on the statistical analysis of experimental data using non-parametric techniques (no previous statistics coursework required), and the application of experimental methods to identify behavioral regularities related to risk preferences, the endowment effect, overconfidence, framing, probabilistic assessment and other areas of
decision-making. Students are required to complete a final experimental design project, which will include motivating theory, novel research hypotheses, proposed analytics, and implementation details.

**MAN 2941 Sports Marketing Management 3 Credits** (Same as MAR 2941)
Provides an overview of sports marketing as a component of a fully integrated marketing communication strategy. Students study the history and contemporary application of sports marketing as a method to achieve goals. The curriculum addresses corporate as well as sporting property use of sports marketing strategies to achieve business objectives. The course examines strategies that address critical business constituencies, consumers, trade factors, employees, and the financial community. Also covered are sports marketing within the context of special sporting event sponsorships, professional sports teams as well as governing organizations, sports media (broadcast, print, and Internet), licensing, and hospitality.
Prerequisite: MAN 1020, MAR 1001.

**MAN 2943 Principles of Real Estate 3 Credits** (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: BUS 1001, MAN 1020, FIN 1001, IDS 1131.

**MAN 3015 Management and Leadership 3 Credits**
Emphasis is on the development of interpersonal competencies to allow individuals to effectively work as managers or professionals in the rapidly changing, team-oriented, culturally diverse and technologically integrated global climate facing modern organizations. The course provides students the opportunity to understand the major leadership concepts, theories and models and the applicability of these theories, to understand the fundamental ways leadership is practiced in organizations, and to understand the unique dimensions of one’s own leadership style, strengths and weaknesses, and methods to improve.
Prerequisite: MAN 1020.

**MAN 3315 Social Entrepreneurship 3 Credits** (Same as MAR 3315)
Social entrepreneurship is a business field in which business and nonprofit leaders design, grow, and lead mission-driven enterprises. Elements of: social science, business, law, management theory, knowledge from practice, and features of private and public entities will be discussed. Hybrid business models that serve both social needs and financial needs, and new tools for measuring social impact and change will be covered.
Prerequisite: MAN 1020, MAR 1001.

**MAN 3318 Social Media Marketing 3 Credits** (Same as MAR 3318)
Discusses the development of a social media strategy and defines what social media is. Social media tools such as Twitter, LinkedIn, Facebook, YouTube, Yelp, Google, etc. are
explored and their application and usability in business are examined. The course discusses the process of developing a marketing plan using social media and also presents measurement techniques for the effectiveness of social media and their ROI using a number of metrics.
Prerequisite: MAR 1001.

**MAN 3323 Creative Advertising 3 Credits** (Same as MAR 3323)
Explores the relationships between advertising, conceptual thinking, writing, teamwork and design. It utilizes all media including television, print, radio, posters, viral, digital, guerrilla and ambient. Focuses on generating engaging and effective communication and provides a glimpse into a career in advertising and its associated areas.
Prerequisites: MAR 1001, MAR 3313.

**MAN 3500 Fashion Fundamentals 3 Credits** (Same as MAR 3500)
Introduces the terminology and principles necessary to be successful in the fashion business through a dynamic lecture and workshop-based format. Students study fashion classifications, garment detail and construction, sources of fashion information, and the modern history of fashion. Students will learn the scope and global nature of the fashion business through the use of industry research, case studies and hands-on projects.

**MAN 3501 Israeli Business Environment 3 Credits**
Introduction to high tech, venture capital in Israel; overview of the Israeli economy, its accounting, business and tax laws, entrepreneurial environment, cultural issues; investing in Israeli start-ups; leading corporations in Israel; job market in Israel.
Prerequisites: MAN 1020, MAR 1001.

**MAN 3502 Creative and Innovative Product Development 3 Credits** (Same as MAR 3502)
A key element of successful business enterprise is good design. In the world of fashion, CoCo Chanel revolutionized the industry with her innovative design elements. Apple has become one of the world’s most admired companies because its corporate executives place a premium on beauty and functionality of product design. This course provides an understanding of the product design process and its importance in the business world. Students will learn how to develop the ability to think more creatively about marketplace challenges. This course is targeted to students who want to discover and improve upon their innovative and creative skills in the business environment.
Prerequisites: MAR 1001 or (MAN 1020 or MAR 3500).

**MAN 3504 Systematic Inventive Thinking 3 Credits** (Same as MAR 3504)
In this course students will learn how to be innovative in the way they approach Business problems and challenges. This course will concentrate on a method that helps companies develop a culture and practice of innovation. Students learn skills for thinking and acting differently in an effective way. This leads to generating ideas that are both innovative and practical.
Prerequisites: MAN 1020, MAR 1001.

**MAN 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. 
Prerequisites: MAN 1020, MAR 1001.

**MAN 3605 Cross Cultural Aspects of International Business 3 Credits**
This course seeks to provide students with an understanding of the process of cross-cultural management and the challenges that they face while working internationally. Effective training and exposure to cultural differences around the world can help people learn to successfully manage the ever culturally diversified workforce domestically and overseas.
Prerequisite: MAN 1020.

**MAN 3710 Management of Non-Profit Enterprises 3 Credits**
Examines the leadership issues unique to nonprofit organizations from the perspective of the volunteer board of directors, the chief executive officer, and his or her staff. Nonprofit institutions are growing rapidly. They include educational, research, health care, art, cultural, religious, social and welfare services, advocacy, legal services, international assistance, foundations, and mutual benefit professional and trade associations. The course explores the leadership skills, organizational attributes, accountability, and ethical demands of the nonprofit sector.
Prerequisite: MAN 1020.

**MAN 3720 Business Strategy (Capstone) 3 Credits**
Defines and analyzes the formulation and implementation of corporate objectives and strategies; uses cases and/or computer simulations to develop policy skills.
Prerequisites: MAN 1020, MAN 2110, MAN 3780

**MAN 3780 Principles of Entrepreneurship 3 Credits**
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: FIN 1001, IDS 1131, MAN 1020, MAR 1001.

**MAN 3788 Family Business Management**
Owners of entrepreneurial and family businesses face unique issues. Special problems include integrating family members into the business, motivating and retaining non-family employees and business succession strategies. Viewed from a multi-disciplinary perspective that includes legal, tax and behavioral considerations, the course examines selection of business form, tax planning, financing and cash flow planning.
Prerequisite: MAN 1020.

**MAN 3790 Managing a Growing Business 3 Credits** (Same as MAR 3790)
Students will learn how to manage and enhance an existing growth business organization, while addressing topics such as: accounting, supply chain management, marketing, management & general business issues. This course provides the unique opportunity to work on real business problems and be part of a consulting team. At the
end of the course, students should be able to develop a business plan and provide specific solutions to the business client. Students will hone their business leadership and technical proficiency via interactive lectures, operations exam and analysis, and critical thinking leading to recommendations, reports and presentations.
Pre-requisite: IDS 1001, MAN 1020, MAR 1001.

MAN 3796 Franchising, Licensing, and Distributorships 3 Credits (Same as 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, MAR 1001.

MAN 4001 Principles of Success 3 Credits
Students may appear different in look, interests and life trajectory, but they all share one similarity: their desire for success. They each choose certain courses, socialize with certain friends and make certain decisions, be it career, familial or spiritual, in pursuit of success. This course will recognize the role of spirituality in one’s pursuit of life success. Students will develop critical thinking and decision making skills; learn how to make a decision in a systematic way; develop effective written and oral communication skills; and understand how to achieve success in multiple areas of life, even if such areas appear mutually exclusive.

MAN 4002 Leadership in the Non-Profit World 3 Credits
This course explores issues of leadership, especially in the not-for-profit sector. Discussions will issues of management and leadership, including team building, vision, charisma, conflict of values, professional and board relations, and determining who the client is. The course will draw on a variety of historical, political, business and Torah sources to illustrate the commonalities and differences of leadership styles and how such styles effect different situations.
Prerequisite: MAN 1020.

MAN 4931 Seminar: Contemporary Problems in Business 3 Credits
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: MAN 1020 or MAR 1001. And upper class status or permission of Sy Syms Dean.

MARKETING (MAR)

CONCENTRATION of BUSINESS MAJOR: Sy Syms School of Business
MAR 2501, 2621, 3318, 3720, two additional marketing electives and three additional business electives.
MINOR: For Sy Syms School of Business students
Any three upper level marketing courses (beyond MAR 1001).

MINOR: For Stern College Students
MAR 1001, 2501, 3318, two additional marketing courses and one business core course.

MAR 1001 Principles of Marketing 3 Credits
An introduction to the basic concepts of market definition, consumer behavior, and the principal marketing functions: product line development, pricing, distribution, promotion, sales-force management, advertising, research, and planning. Cases and examples are utilized to develop problem-solving abilities and provide students with a glimpse into the Marketing world.
Prerequisite: IDS 1001.

MAR 2501 Buyer Behavior 3 Credits
Presents a comprehensive, systematic, and practical conceptual framework for understanding people as consumers—the basic subject matter of all marketing. It draws on the social sciences to evaluate the influence of both individual and ecological factors on market actions. Students discuss relevant psychological and sociological theories and study how they can be used to predict consumers' reactions to strategic marketing decisions. Cases and examples are utilized to enhance the understanding of consumers as social beings in the market place.
Prerequisite: MAR 1001.

MAR 2550 Business Intelligence and Consumers Insights 3 Credits (Same as IDS/MAN 2550)
Data mining is a powerful new technology with great potential to help companies focus on the most important information in the data they have collected about the behavior of their customers and potential customers. It discovers information within the data that queries and reports can't effectively reveal. This course explains what data mining is, how it can be used, and how it can help a company leapfrog its competition. Internet based applications such as social media, website usage, tracking and online reviews as well as a firm’s own activities and business processes, are discussed as potential sources of data.
Prerequisite: IDS 1020, IDS 1131, IDS 2030, MAR 1001

MAR 2255 E-Commerce 3 Credits (Same as IDS 2255)
This course provides an understanding of e-commerce and its impact on firms, industries and markets. In a few short years, the Web has already had a large impact on how we shop, read, conduct business, learn, and consume information like music and art. The fundamental architecture of information processing within the firm is changing as new Internet technologies appear. Internet technologies are also having a broad impact on the management of firms. How well firms are able to master these new technologies and business models is having an important impact on their overall success. This course describes the technologies used in electronic commerce;
discusses the resulting changes in organization structure, industry, and societal behavior and seeks to understand the forces that bring about these changes.
Prerequisites: IDS 1020, MAN 1020, MAR 1001.

**MAR 2621 Applied Research 3 Credits** (Same as MAN 2621)
Provides students with both research and managerial perspectives in the development and application of marketing research tools and procedures. It describes the development of research designs from problem formulation to analysis and submission of the research report. It also covers the analysis of techniques in marketing research, such as focus groups, experimental design, surveys, sampling, statistical analysis, and reporting. Cases are utilized in the development of methods and in specific areas of application. SPSS or an equivalent statistical software is used.
Prerequisites: IDS1131, MAN 1020, MAR 1001.

**MAR 2700 Start-up Marketing**
While marketing is a core function in any business, it is far more critical in a startup. Since the “build it and they will come” theory typically doesn’t work in reality, marketing is critical to ensure fledgling companies can find product-market fit, identify their target market, and create and execute an integrated marketing plan. What makes startup marketing unique? You have to achieve these milestones with limited resources, whether it’s time, money or talent. Every effort, no matter how small, has to be well-planned, flawlessly executed, and meticulously measured. And to add an additional level of difficulty, what often works in traditional companies with scale doesn’t usually work for start-ups. This course will help students understand the art and science of startup marketing – the secrets behind testing, learning, and identifying the right marketing mix that works for their startup.
Prerequisites: MAR 1001, recommended: MAR 2621, IDS 2550, IDS 1131, MAR 3318.

**MAR 2818 Hospitality & Tourism (Same as MAN 2818)**
This introductory course will present an overview of the structure and financial performance of the hospitality industry. The focus of the course will be on business strategy, marketing and operations - and how these disciplines are used to address customer needs in light of rapidly changing global, cultural and economic trends.

**MAR 2828 Behavioral Economics (Same as FIN 2828 and MAN 2828)**
This course is an introduction to behavioral economics and its applications. The course will focus on the statistical analysis of experimental data using non-parametric techniques (no previous statistics coursework required), and the application of experimental methods to identify behavioral regularities related to risk preferences, the endowment effect, overconfidence, framing, probabilistic assessment and other areas of decision-making. Students are required to complete a final experimental design project, which will include motivating theory, novel research hypotheses, proposed analytics, and implementation details.

**MAR 2941 Sports Marketing Management 3 Credits** (Same as MAN 2941)
Provides an overview of sports marketing as a component of a fully integrated marketing communication strategy. Students study the history and contemporary application of
sports marketing as a method to achieve goals. The curriculum addresses corporate as well as sporting property use of sports marketing strategies to achieve business objectives. The course examines strategies that address critical business constituencies, consumers, trade factors, employees, and the financial community. Also covered are sports marketing within the context of special sporting event sponsorships, professional sports teams as well as governing organizations, sports media (broadcast, print, and Internet), licensing, and hospitality.

Prerequisites: MAN 1020, MAR 1001.

**MAR 3315 Social Entrepreneurship 3 Credits** (Same as MAN 3315)
Social entrepreneurship is a business field in which business and nonprofit leaders design, grow, and lead mission-driven enterprises. Elements of: social science, business, law, management theory, knowledge from practice, and features of private and public entities will be discussed. Hybrid business models that serve both social needs and financial needs, and new tools for measuring social impact and change will be covered.
Prerequisites: MAN 1020, MAR 1001.

**MAR 3318 Social Media Marketing 3 Credits** (Same as MAN 3318)
Discusses the development of a social media strategy and defines what social media is. Social media tools such as Twitter, LinkedIn, Facebook, YouTube, Yelp, Google, etc. are explored and their application and usability in business are examined. The course discusses the process of developing a marketing plan using social media and also presents measurement techniques for the effectiveness of social media and their ROI using a number of metrics.
Prerequisite: MAR 1001.

**MAR 3320 Digital Marketing 3 Credits**
The effect of the Internet and related technologies on business and social institutions is more profound than that of any prior invention, including the printing press and the internal combustion engine. Last several years have seen a dramatic increase in the amount of time and money consumers spend online. As a consequence, the Internet has become an important channel that firms can use to reach out and connect to consumers, which has lead to the emergence of digital marketing. This course on Digital Marketing provides an understanding of tools like online advertising and social media to meet business objectives. This course will cover basic marketing and statistical concepts and provide an introduction to different online marketing tools like email marketing, SEO/SEM and social media analytics.
Prerequisite: MAR1001.

**MAR 3321 Brand Management 3 Credits**
Focuses on the development of brand and marketing strategy and the programming of the strategy and implementation of the marketing programs. It draws on the social sciences to evaluate the influence of both individual and ecological factors on market actions and brand decisions. The unifying framework for these activities is the brand audit. Thus, the course simulates the brand manager’s job through the development and implementation of a companywide brand audit.
Prerequisite: MAR 1001.

**MAR 3323 Creative Advertising 3 Credits** (Same as MAN 3323)
Explores the relationships between advertising, conceptual thinking, writing, teamwork and design. It utilizes all media including television, print, radio, posters, viral, digital, guerrilla and ambient. Focuses on generating engaging and effective communication and provides a glimpse into a career in advertising and its associated areas. Prerequisites: MAR 1001.

**MAR 3324 Advanced Advertising Copywriting 3 Credits (Same as ENGL 1610)**

**MAR 3500 Fashion Fundamentals 3 Credits** (Same as MAN 3500)
Introduces the terminology and principles necessary to be successful in the fashion business through a dynamic lecture and workshop-based format. Students study fashion classifications, garment detail and construction, sources of fashion information, and the modern history of fashion. Students will learn the scope and global nature of the fashion business through the use of industry research, case studies and hands-on projects.

**MAR 3502 Creative and Innovative Product Development 3 Credits** (Same as MAN 3502)
A key element of successful business enterprise is good design. In the world of fashion, CoCo Chanel revolutionized the industry with her innovative design elements. Apple has become one of the world’s most admired companies because its corporate executives place a premium on beauty and functionality of product design. This course provides an understanding of the product design process and its importance in the business world. Students will learn how to develop the ability to think more creatively about marketplace challenges. This course is targeted to students who want to discover and improve upon their innovative and creative skills in the business environment. Prerequisites: MAR 1001, (MAN 1020 or MAR 3500).

**MAR 3504 Systematic Inventive Thinking 3 Credits** (Cross-listed with MAN 3504)
In this course students will learn how to be innovative in the way they approach Business problems and challenges. This course will concentrate on a method that helps companies develop a culture and practice of innovation. Students learn skills for thinking and acting differently in an effective way. This leads to generating ideas that are both innovative and practical. Furthermore, with this approach the student can learn how to make innovation consistent, systematic and reliable within organizations. Prerequisites: MAN 1020, MAR 1001.

**Mar 3530 Fashion Accessories and Design**
This class is an introduction to the fashion accessories world from both the business perspective and the design perspective. Whether students have some experience or are just interested in learning more about this field, this class will describe, through practical discussions and projects, the various aspects of designing fashion accessories. Across the areas of men’s, women’s or children’s accessories, students will explore different design aspects where they may utilize skills they already have learned such as: sketching, photography, computer graphics and resourcing. The course will also discuss
applicable and relegated influences such as design merchandising, marketing and branding in the fashion accessory business

**MAR 3720 Marketing Capstone 3 Credits**
The course is designed to develop a student's ability to apply marketing skills to practical business situations through a marketing simulation, case analyses, and discussion. Upon completion of this capstone course, students will have developed better decision-making and communication skills.
Prerequisites: MAR 1001, MAR 2501, MAR 2621 and upper-class status at Sy Syms School of Business.

**MAR 3790 Managing a Growing Business 3 Credits** *(Same as MAN 3790)*
Students will learn how to manage and enhance an existing growth business organization, while addressing topics such as: accounting, supply chain management, marketing, management & general business issues. This course provides the unique opportunity to work on real business problems and be part of a consulting team. At the end of the course, students should be able to develop a business plan and provide specific solutions to the business client. Students will hone their business leadership and technical proficiency via interactive lectures, operations exam and analysis, and critical thinking leading to recommendations, reports and presentations.
Prerequisites: IDS 1020, MAN 1020, MAR 1001.

**MAR 3796 Franchising, Licensing, Distributorships 3 Credits** *(Same as 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.
Prerequisites: MAR 1001, MAN 1020.

**MATHEMATICS (MATH)**
The department of mathematical sciences offers the following degrees:
BA in Mathematics (including a pre-actuarial/financial mathematics track);
BA/MA in Mathematics (students can receive up to 12 credit hours of graduate courses towards the BA degree, and the remaining graduate courses up to 30 credit hours towards the MA);
MA in Mathematics (30 credit hours) and PhD in Mathematics.
Graduate courses in mathematics are open to undergraduate students who successfully completed multivariable calculus and linear algebra.

**MAJOR: Stern College for Women**

**MATH 1412, 1413, 1510, 1520 or 1523, 1521 or 1540, 2105, 2601 or 2611.. (The graduate course 5118 may replace 1523; the graduate course 5127 may replace 1540; and the graduate course 5930 may replace 2601); three additional courses in mathematics numbered 1500 or higher; and three correlate courses chosen from graduate mathematics or from computer science, economics and physics.**
Recommended correlates are: COMP 1300C; ECON 1101; ECON 1201; PHYS 1051C, PHYS 1052C, PHYS 1140, PHYS 1221, PHYS 1340.

The same computer science course may not be used as both a Math elective toward the major and a correlate.

**Pre-actuarial science/financial mathematics track**
MATH 1412, 1413, 1510, 1520 or 1523, 2105, 2461 or 2462, 2601 or 2611, 2901. (The graduate course 5118 may replace 1523; the graduate course 5266 may replace 2462; and the graduate course 5901 may replace 2901); two additional courses in mathematics numbered 1500 or higher; and three correlate courses. Correlates can be chosen from graduate mathematics or from computer science, economics and physics (recommended courses: COMP 1300C, ECON 1101, ECON 1201, ECON 1421, ECON 2601, ECON 1177, PHYS 1340).

**MINOR: Stern College for Women**
MATH 1412, 1413, 1510, 2105 and 6 additional MATH credits numbered 1500 or higher.

A mathematics placement examination is required of all students planning to take Mathematics. Students must take this test before registering for MATH 1160 or 1412.

**1010 Excursions in Mathematics 3 credits**
This course is intended for non-science majors and Education majors. Several topics will be taught in depth from the following list: Sets of numbers, geometry, elements of probability and statistics, consumer mathematics, linear programming.

**1160 Pre-Calculus 4 credits**
Number systems, functions, equations, and inequalities; algebra of polynomials, exponentials, and logarithms; analytic geometry of lines and circles; vectors, trigonometry, and complex numbers. (lecture: 3 hours; recitation: 2 hours).
Prerequisites: two years of high school mathematics and placement by examination.

**1410 Fundamentals of Calculus 4 credits**
This course is designed for students majoring in biology, pre-health sciences, or any other major except mathematics, computer science, physics, engineering, chemistry, and physical sciences. Topics include functions, limits, derivatives, and integrals, and problem solving methods, including optimization and related rates problems. Emphasis is placed on developing and interpreting models from a variety of disciplines, on analyzing data, and on graphing and numerical computations. (lecture: 3 hours; recitation: 1 hour).
Prerequisite: Pre-Calculus—high school Algebra and Trigonometry.

**1412, 1413 Calculus I, II 4 credits**
First semester: limits, derivatives, and integrals; continuous and differentiable functions, mean value theorem, chain rule, implicit differentiation. Applications: curve sketching, maxima and minima, related rates, motion, area. Trigonometric, inverse trigonometric, logarithmic and exponential functions. Second semester: methods of integration, area,
moments, volume. Indeterminate forms, improper integrals, sequences and series. Parametric equations, arc length and polar coordinates. (lecture: 3 hours; recitation: 2 hours).
Prerequisites: three years of high school mathematics and placement by examination or MATH 1160.

1504 Discrete Structures 3 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. (lecture: 3 hours; recitation: 1 hour)
Prequisite: three years of high school mathematics.

1510 Multivariable Calculus 4 credits
Limits and continuity in Euclidean spaces; partial derivatives, gradient, and chain rule; maxima and minima with constraints; multiple integrals, cylindrical and spherical coordinates; vector calculus; theorems of Green, Gauss, and Stokes.
Prerequisite: MATH 1413.

1520, 1521 Advanced Calculus I, II 3 credits
Real numbers; theorems on limits; continuous, differentiable, and integrable functions; sequences and series of functions; metric space methods, fixed points, existence theorems for differential equations; implicit function theorem.
Prerequisites: MATH 1413 and permission of the instructor.

1523 Introduction to Analysis 3 credits
Differentiation of functions of several real variables, the Lebesgue integral, infinite-dimensional normed spaces.
Prerequisites: MATH 1510, 2105.

1540 Functions of a Complex Variable 3 credits
Analytic functions, Cauchy-Riemann equations, Cauchy integral formula, residue theory, conformal mappings.
Prerequisite: MATH 1520 or permission of the instructor.

2105 Linear Algebra 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; spectral theory; applications.
Prerequisite: MAT 1412.

2168 Elementary Number Theory 3 credits
Properties of integers, Euclidean algorithm, unique factorization, arithmetic functions, perfect numbers, linear and quadratic congruences, public-key encryption.

2215 Modern Algebra 3 credits
Basic concepts of an algebraic system, a sub-system, a factor-system, an isomorphism and a homomorphism. Examples and initial results from the theory of groups, rings, and fields. The second semester will be devoted to advanced topics, including recent developments.
Prerequisite: MATH 2105 or permission of the instructor.

**2461 Probability Theory 3 credits**
Discrete and continuous sample spaces; combinatorial analysis; density and distribution functions of random variables; expectation and variance; independence and conditional probability; law of large numbers; central limit theorem; generating functions; random walk and ruin problems.
Prerequisite: MATH 1413; Pre or Corequisite: MATH 1510.

**2462 Mathematical Statistics 3 credits**
Application of probability theory to the classical parametric models: moment-generating functions, chisquare and t distributions, central limit theorem, sampling distributions, maximum likelihood and interval estimation, confidence intervals, hypothesis testing; nonparametric models; the Bayesian controversy. Examples from natural science and social and behavioral research.
Prerequisite: MATH 2461.

**2601 Ordinary 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.

**2651 Numerical Analysis 3 credits**
Finite difference calculus; numerical solution of differential equations and linear systems of equations; iterative methods; computation of eigenvalues and eigenvectors.
Prerequisite: MATH 1413.

**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: MATH 143 and familiarity with differential equations.

**3301, 3302, 3303, 3304 Topics in Modern Mathematics 3 credits.**
Selected subjects in analysis, algebra, geometry, actuarial, and applied mathematics.
Students may register for up to four semesters with permission of the Department Chair.
Prerequisites: junior status and permission of the instructor.
MUSIC (MUSI)

MAJOR: Stern College for Women
Thirty credits including MUSI 1111, 1350, 1351, 2105, 2111, 2111L, 2112, 2112L, 2113, 2120. The remaining five credits must include participation in a chamber ensemble and/or the chorus. Choral Ensemble, Chamber Ensemble and Applied Musical Studies are graded on an A/P/N basis.

MINOR: Stern College for Women
Twenty credits including MUSI 1111, 2105, 2111, 2111L, 2112, 2112L. The remaining seven credits must include at least one history course and participation in a chamber ensemble and/or the chorus.

1111 The Sense of Music 3 credits
Developing insight into the art of music through guided listening experiences that aim to develop aural perception, 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.

1341 Music of the Middle Ages and the Renaissance 3 credits
Evolution of the forms and practices of Western music during the medieval and Renaissance eras; the development of forms and practices during the Baroque era, emphasizing the works of Machaut, Dufay, Josquin, Ockeghem, and Monteverdi. Prerequisite: MUSI 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. Prerequisite: MUSI 1111.

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 Schubert to Babbitt. Prerequisite: MUSI 1111.

1381 History of Jazz, Blues, and American Pop Music 3 credits
African, AfroAmerican and EuroAmerican 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. Prerequisite: MUSI 1111 or permission of the instructor.
1661 Survey of Operatic Literature 3 credits
A brief overview of the history of opera, with a focus on various aspects that this genre raises. Topics may include the relative role of words versus music, plots that are appropriate for dramatic treatment, the means by which character is created through music, and political subtexts of certain works.
Prerequisite: MUSI 1111 or permission of the instructor.

2105 Music Fundamentals 2 credits
An introduction to music notation and the piano keyboard. Designed to give beginners a basic level of skill in sight reading. Preparatory course for further study in applied music theory, ear-training and harmony.

2111, 2112 Diatonic Harmony and Counterpoint I, II 3 credits
Structural foundations of music and their applications to the reading, sight singing, playing, writing and analysis of melodies, as well as to the writing and playing of simple chordal accompaniments and of four-part chorales; introduction to counterpoint. Some musical experience is desirable.
Prerequisite: MUSI 2105. Corequisites: 2111L, 2112L

2111L, 2112L Elementary Ear Training and Keyboard Skills I, II 1 credit
Laboratory course designed to help students master the skills covered in Diatonic Harmony and Counterpoint. 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.
Prerequisite for 2112L is 2111L.

2113, 2114 Chromatic Harmony I, II 3 credits
Continuation of Diatonic Harmony and Counterpoint. 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: MUSI 2112.

2113L Intermediate Ear Training 1 credit
Corequisite: MUSI 2113

2120, 2121 Introduction to Composition I, II 3 credits
Basic techniques involved in writing music. Issues of musical structure and expression are explored in traditional and contemporary repertory via composition as well as the analysis of selected works.
Prerequisite: MUSI 2112 or permission of the instructor.

3301; 3302; 3303; 3304 Choral Ensemble 1 credit
Introduction to the vocal art and to the craft of ensemble singing through explorations in standard choral repertory. Primary objectives are free vocal production and attainment of a refined ensemble sound. Students will do physical and vocal exercises as well as
basic work in musical notation, part-singing skills, and training of the ear for the special requirements of ensemble singing.

3461 through 3484 Instrumental Music Ensembles 1-2 credits
Introduction to the craft and discipline of small ensemble rehearsal and performance. Emphasis placed on basic musicianship skills, including formal and rhythmic analysis, sight reading, and score reading, as well as on tonal beauty, accurate intonation, and expressivity.
Prerequisites: Ability to play a musical instrument or sing, ability to read music, and permission of the instructor.

4001 Introduction to Music Pedagogy 2-3 credits
Students in this course will work on their own vocal and instrumental skills, reaching for a new level of freedom and expressivity in performance, while developing a detailed awareness of the process so as to be able to assist their own students in the future. The process involves in-class performance and focus on rehearsal and practice technique, improvisation, analysis, verbal communication skills, critical thinking, and writing.
Prerequisite: Ability to play an instrument and ability to read music, or permission of instructor.

4111; 4112; 4113; 4114 Applied Musical Studies 1-2 credits
Vocal or instrumental work arranged by the music staff; literature, material, techniques. A maximum of nine (9) credits may be taken in such courses. Fee: minimum $600 per semester on an individual basis, dependent on extent and nature of services provided.
Prerequisite: permission of the senior professor.

4930 Selected Topics in Music 1-3 credits

OCCUPATIONAL THERAPY

Stern College for Women offers a B.A./M.S. combined program in occupational therapy in conjunction with Columbia University's College of Physicians and Surgeons. Three years of study at Stern College are followed by two years at Columbia University. The five-year program leads to a B.A. degree from Stern College and a master's degree from Columbia University. Yeshiva University confers the B.A. degree upon the successful completion of the fourth year of study, and Columbia University confers the master's degree upon completion of the entire program.

Pre-professional segment: The pre-professional segment of the program provides a thorough foundation in the humanities and social sciences, intensive Jewish studies, and the opportunity for in-depth study in the sciences to prepare the student for the professional component.

Required Courses
General Education Requirements:
Modes of Expression: ENGL 1100, SPEE 1010;
Foundations of History, Philosophy and Social Science: PSYC 1010, SOCI 1001; Interpreting Literature and the Arts: 9 credits; Contemporary US and Global Perspectives: 6 credits; Science and Technology: BIOL 1011C, 1012C; Quantitative Skills: STAT 1021; 12 credits of electives including PSYC 2414.

**Jewish Studies Requirements:**
Four semesters of Core (a unit of three courses in Jewish studies at Stern College for Women, comprising 8-9 hours of class time per week.) plus 14 additional Jewish Studies credits. Courses are chosen from among Bible, Hebrew language, Jewish philosophy, Jewish history, and Judaic studies.

**Major Requirements**
Students meet with an Academic Advisor to discuss a “Shaped Major” that includes courses in biology, anatomy, physiology, and psychology. Additional details are on the “Combined Program in Occupational Therapy Fact Sheet” available online and in the Office of Academic Advisement.

**PHILOSOPHY (PHIL)**

**MAJOR: Stern College for Women**
Thirty credits, at least 24 in PHIL courses. The remaining 6 may be in Jewish philosophy (JPHI) courses (in excess of the Jewish studies requirement) chosen with the written approval of the senior professor. No more than two courses that are offered by other departments but are cross-listed with philosophy may be counted toward the philosophy major.

**MINOR: Stern College for Women**
Fifteen credits, at least 12 in PHIL courses. The remaining 3 may be in Jewish philosophy (JPHI) courses (in excess of the Jewish studies requirement) chosen with the written approval of the senior professor. Courses in Jewish philosophy are listed under JPHI. No more than one course that is offered by another department but is cross-listed with philosophy may be counted toward the philosophy minor.

**1100 Logic 3 credits**
Methods and principles used in distinguishing correct from incorrect reasoning; traditional deductive logic and symbolic logic.

**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.

1400 Philosophy of Science 3 credits
Fundamental conceptions of the empirical and mathematical sciences, such as explanation, law, theory, space, determinism, and reduction.

1425 Philosophy and New Technologies 3 credits
Philosophical issues—among them, ethics, property rights, and personal identity—raised by biological advances such as cloning, stem cell research, and IVF; digitization of media; and the possibility of uploading memories and extending human capabilities.

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, time, and the philosophical concept of God.

1600 Ethics 3 credits
The problems of relativism and subjectivism; utilitarian versus deontological approaches to moral concepts; contemporary moral dilemmas.

1710 Religion and Philosophy 3 credits
Examination of differing conceptions of the role of reason in the religious life and of major philosophic arguments that focus on religious beliefs.

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

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

2532 Philosophy of Art 3 credits
What is a work of art and what are the criteria for evaluating its goodness? These questions will be answered by reading the works of some classic philosophers, from Plato through Kant to Dewey and Wollheim. We will also read some contemporary philosophers’ discussions of current issues such as the status of fakes, of photographs, and of ugliness and horror, and the relation of art to morality.

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

2740 Science and Religion 3 credits
This course examines: differing models for understanding the relationship between science and religion; the methods of science and the methods of religious thought;
options for approaching ostensible conflicts between science and religion; questions about divine activity, miracles, and related topics; the impact of contemporary science on arguments for religious belief.

3100 Theories of Justice 3 credits
Examines the concept of justice and its relation to government from ancient to contemporary times. Principal thinkers discussed are Plato, Aristotle, Hobbes, Locke, Hume, Rawls, and Nozick.

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 POLI 2405.

3300 Just and Unjust Wars 3 credits
Examination of the criteria for justly initiating war and the limits that must be observed during the fighting through a close reading of Grotius, Walzer, and the Geneva Conventions.

3402 Philosophy of Law 3 credits
The nature and scope of law; arguments for obeying law; civil disobedience; law and morality; constitutional interpretation; and the justification of particular legal practices, such as punishment and paternalism.

3500 Medical Ethics 3 credits
Discussion of ten of the main issues in the chronological order in which they appeared in the public arena, including experiments on humans by Nazi doctors, allocation of scarce resources in dialysis, paternalism and patient autonomy, brain death, AIDS and the duty to treat, genetic testing, and cloning.

3620 Environmental Ethics 3 credits
This course analyzes the ethical bases for the preservation and conservation of non-human and even non-living things (like the Everglades) – not just for human benefit, but also for their inherent value. We will use these philosophical tools to help make sense of global warming, pollution, animal rights etc.

4925; 4926; 4927; 4928; 4929; 4930 Selected Topics 3 credits
Special topics, issues, and movements in philosophy.
Prerequisites: one semester of PHIL and permission of the instructor.

4931, 4932 Seminar 3 credits
Intensive analysis of a philosopher, a philosophic concept, or a philosophic movement.
Prerequisites: one semester of PHIL or permission of the instructor.
PHYSICAL EDUCATION AND ATHLETICS (PEDU)

The Department of Physical Education and Athletics offers 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. Each participant on a varsity team is eligible for 1 credit. All courses are graded on an A/P/N basis. Participation on teams requires medical certification.

1324 Team Volleyball
1346 Team Tennis
1424 Team Basketball
1511 Team Soccer
1610 Team Softball
2316 Team Cross Country
2463 Elementary Fencing
2466 Team Fencing

PHYSICAL SCIENCES (PHSC)

MAJOR: Stern College for Women
52-56 credits. PHYS 1051C, 1052C, 2051, 2052; MATH 1412, 1413*, 1510, 2105*, 2601; COMP 1300C; CHEM 1045C; ECON 1010**; Plus 3 additional courses related to the particular field(s) of engineering in which the student is interested:

1) **Concentration in Chemistry**: CHEM 1046C, 1213R, CHEM 1215L and an advanced CHEM elective.
2) **Concentration in Electromagnetism**: PHYS 1321, 1322, plus a Physics elective
3) **Concentration in Mechanics**: PHYS 1221, 1222, plus a Physics elective
4) **Concentration in Computer Science**: COMP 1320C plus 2 advanced electives.
5) **Concentration in Biology**: BIOL 1011C, 1012C, plus an advanced BIOL elective.

*MATH 1413 and 2105 may count toward the General Education “Elective” category.
**ECON 1010 may count toward the General Education “Foundation” category.
See the individual departments for the course descriptions.
PHYSICS (PHYS)

MAJOR: Stern College for Women
50-51 credits. PHYS 1051C, 1052C, 2051, 2052, 1221, 1321, 1340, 1510, 1621; MATH 1412, 1413*, 1510, 2105*; and one elective from PHYS 1222, 1322, 1401, 1810; and one elective from COMP 1300C, MATH 2651, PHYS 1140.

*MATH 1413 and 2105 may count toward the General Education “Elective” category. MATH 2601 is highly recommended, but not required.

MINOR: Stern College for Women
17 credits. PHYS 1051C, 1052C, 2051, 2052, and one elective from PHYS 1140, 1221, 1321, 1340, 1510, 1810.

1031C, 1032C Introductory Physics 4 credits
Two-semester, algebra-based course, taken by students who intend to major in biology, chemistry, and the health professions. Topics covered: kinematics and dynamics of the particle and rigid bodies, conservation laws, momentum, energy and angular momentum, oscillations, waves, fluids, thermodynamics, optics, electromagnetism, modern physics. Laboratory experiments are designed to help students master the principles covered in lecture. (lecture: 3 hours; recitation: 1 hour; lab: 2 hours). Laboratory fee.

1051C, 1052C General Physics 4 credits
Two-semester, calculus-based course for Physics, Physical Sciences and Pre-Engineering majors. Topics covered: kinematics and dynamics of the particle and rigid bodies, conservation laws, momentum, energy and angular momentum, oscillations, waves, fluids, electromagnetism and optics. Laboratory experiments are designed to help students master the principles covered in lecture. Lecture: 3 hours; recitation: 1 hour; lab: 2 hours 45 minutes. Laboratory fee.
Prerequisite for PHYS 1051C: MATH 1412 or more advanced or instructor’s permission. Prerequisite or co-requisite for PHYS 1052C: MATH 1413

1140 Mathematical Physics 3 credits
One-semester course covering the mathematical foundations of modern physics. Topics: functions of complex variables, multiple integrals, Fourier series, special functions, integral transforms (Laplace and Fourier), Green functions, distributions. Examples, problems and applications from different fields of physics.
Prerequisite: PHYS 1052C.

1221 Classical Mechanics I 3 credits
Newtonian mechanics; oscillations: simple, damped and driven; resonance; elements of nonlinearity; noninertial frames of reference; motion relative to the Earth; conservative forces and potential energy; central forces; planetary motion.
Prerequisite: PHYS 1051C.
1222 Classical Mechanics II 3 credits

1321 Electromagnetic Theory I 3 credits
Vector calculus, Maxwell's equations in integral and differential form; electrostatics, Poisson's equation; magnetostatics; time-varying fields. Prerequisites: PHYS 1052C, MATH 1510.

1322 Electromagnetic Theory II 3 credits

1340 Computational Methods in Scientific Research 3 credits
Use of computers to solve real problems in biology, physical sciences and economics. Numerical methods and data analysis, and how to visualize results with plots and movies. Prerequisites: MATH 1413. Recommended PHYS 1031C, 1032C or 1051C, 1052C.

1401 Introduction to Solid State Physics 3 credits

1510 Thermodynamics and Statistical Mechanics 3 credits

1621 Introduction to Quantum Mechanics 3 credits
Wave-particle duality. Uncertainty principle. Formalism: Hilbert Space, Observables, Hermitian Operators. Solutions to Schrodinger's Equation in One Dimension:
Transmission and Reflection at a Barrier; Tunneling; Potential Wells; Harmonic Oscillator; Free Particle. Schrodinger's Equation in Three Dimensions: Hydrogen Atom. Angular Momentum and Spin. Perturbation Theory. Introduction to Quantum Information. Prerequisites: PHYS 1221, MATH 2105 or permission of instructor.

1810 Intermediate Experimental Physics 3 credits  
Nonlinear oscillations, diffraction of waves, interferometry, measurement of electron charge/mass ratio, RC filters, propagation of electromagnetic waves. (lecture: 1 hour; lab: 3 hours).  
Prerequisite: PHYS 1052C.

2051 Intermediate Physics I 3 credits  
This course examines wave phenomena with an emphasis on light and offers an introduction to thermal physics. Topics covered include mechanical waves, sound, light as an electromagnetic wave, geometrical optics, interference, diffraction, temperature, heat and the laws of thermodynamics.  
Prerequisites: PHYS 1052C, MATH 1413. Co-requisite: MATH 1510.

2052 Intermediate Physics II 3 credits  
This course introduces the main ideas of modern physics as they were historically developed during the great revolution that took place in Physics between 1880 and 1930, which shaped our current ideas in relativity, quantum mechanics and statistical physics. It presents in a historical context how those ideas were generated, which were the great experiments that led to their development, and the theoretical underpinnings on which they rest.  
Prerequisite: PHYS 2051.

4901, 4902 Independent Study  
See Academic Information and Policies section.

4931-4935 Topics in Physics (1-3 credits)

POLITICAL SCIENCE (POLI)

MAJOR: Stern College for Women  
Thirty-three credits. Three courses chosen from POLI 1101, 1201, 1301, 1401, 1501 (9 credits); plus one course from each of the four subfields listed below (12 credits). The remaining four courses may be taken in any subfield (12 credits).

MINOR: Stern College for Women  
Eighteen credits. Two courses chosen from POLI 1101, 1201, 1301, 1401, 1501 (6 credits); at least one elective course in three of the four subfields (9 credits); remaining course may be taken in any subfield (3 credits).

Courses in political science are divided into subfields. Those numbered x1xx are courses in American politics; x2xx are in comparative politics; x3xx are in international
relations; x4xx are in political theory; and x5xx are general or cross-field courses. Courses numbered 1xxx are introductory-level courses; courses numbered 2xxx are electives, for which the introductory course is generally recommended or required; courses numbered 3xxx are advanced seminars that will usually have particular prerequisites; and 4xxx level courses are independent reading or research projects.

**American Politics**
1101 Introduction to American Politics
1105 Issues in American Public Policy
2100 The American Presidency
2105 Congress and the Legislative Process
2110 Public Administration and Bureaucratic Politics
2115 State and Urban Politics
2120 National Institutions
2125 Political Parties and Interest Groups
2130 Public Opinion and Political Behavior
2135 Voting and Elections
2140 Law and Politics
2145 American Constitutional Law
2150 Civil Liberties
2155 Politics of Criminal Justice
2156 Women and the Law
2160 American Social Movements
2165 Women and Politics
2170 Media and Politics
2175 Race and Religion in American Politics
2180 The American Welfare State
2190 through 2199 Topics in American Politics
3110 Seminar: American Political Development
3115 Seminar: Dynamics of American Politics
3175 Seminar: American Politics
4100 Independent Study in American Politics

**Comparative Politics**
1201 Introduction to Comparative Politics
2200 Politics of Advanced Democracies
2201 European Political Development
2205 African Politics
2210 East Asian Politics
2215 Latin American Politics
2220 Middle East Politics
2225 Politics of Countries in Transition from Communism
2235 Israeli Politics
2240 Escaping Poverty, Oppression, and Violence: Problems of Development
2245 Race, Nation, and Ethnicity in a Global World
2250 Social Movements: Mobilizing for Change
2255 Regime and Opposition
2260 Democratization
2265 Religion and Politics in Comparative Perspective
2290 through 2299 Topics in Comparative Politics
3205 Seminar: Welfare States in Comparative Perspective
3210 Seminar: Resilience of Authoritarianism in the Middle East
3225 Seminar: Nation and State Building in the Post-Cold War Era
3230 Seminar: European Politics
3275 Seminar: Comparative Politics
4200 Independent Study in Comparative Politics

**International Relations**
1301 Introduction to International Relations
1305 American Foreign Policy
2310 European Foreign Policy: Trends and Issues
2315 International Law and Organization
2320 Money and Power in International Politics
2325 Intelligence and National Security
2330 Terrorism and Low-Intensity Conflict
2335 Civil Wars and Intra-State Conflict
2340 International Relations of the Middle East
2390 through 2399 Topics in International Relations
3300 Seminar: International Security
3305 Seminar: Statecraft Analysis
3310 Seminar: Globalization
3315 Seminar: Humanitarian Intervention
3375 Seminar: International Relations
4300 Independent Study in International Relations

**Political Theory**
1401 Great Political Thinkers: Introduction to Political Theory
2405 Classical Political Theory
2410 Modern Political Theory
2415 Contemporary Political Theory
2430 American Political Thought
2435 Contemporary Political Ideologies
2490 through 2499 Topics in Political Theory
3475 Seminar: Political Theory
4400 Independent Study in Political Theory

**1101 Introduction to American Politics 3 credits**
Overview of the formal institutions and functions of the national government (Congress, presidency, courts); their interactions with state and local governments, and with informal institutions of political power (political parties, interest groups, social movements, public opinion, media).

**1201 Introduction to Comparative Politics 3 credits**
Why are some countries rich and others poor? What is the relationship between human rights and economic development? How can we explain differences and similarities in the domestic politics of countries throughout the world? These and other questions are explored through an examination of countries representative of different regions, political systems, and levels of development.

1301 Introduction to International Relations 3 credits
Nation-state system since World War I (national power, national interest, foreign policy formulation); development of international relations from the League of Nations to the United Nations and present regional systems; impact of modern weaponry; war and peace; globalization and the post-cold war world order.

1305 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 foreign policy making process; objectives of American foreign policy; the United States as an international actor in the post-cold war order; the United Nations and the United States.

1401 Great Political Thinkers: Introduction to Political Theory 3 credits
Survey of political philosophers in the Western tradition from Plato and Aristotle through Machiavelli, Hobbes, Locke, Hegel, and Marx to Rawls.

1501 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. Recommended for those students who might be considering a major in the department, or for non-majors who would like an overview of the discipline.

2100 The American Presidency 3 credits
Presidential power in domestic and international affairs, and in relation to the rest of the political system, in historical perspective.

2105 Congress and the Legislative Process 3 credits
What the U.S. Congress does and why, and what tools are available to examine and understand congressional elections and legislative behavior.

2110 Public Administration and Bureaucratic Politics 3 credits
Theories of organizational behavior and management; relationships between administrators and politicians and between administrators and interest groups; political implications of the bureaucratic state.

2115 State and Urban Politics 3 credits
Roles and functions of state and local governments in the American federal system; impact of political parties, interest groups, race, and class on the development and operations of the American city.
2120 National Institutions 3 credits
In-depth examination of the executive, legislature, and judiciary; their development over time; their interactions with each other.

2125 Political Parties and Interest Groups 3 credits
History, evolution, and function of political parties; role of interest groups in national politics and policy making; relationship between parties and pressure groups, and their separate and joint influence.

2130 Public Opinion and Political Behavior 3 credits
Methods for measuring and evaluating public opinion across a range of issues, and the role opinion plays in politics and policy making.

2135 Voting and Elections 3 credits
Methods by which American elections are conducted; means of voter mobilization; explaining levels of voter participation.

2140 Law and Politics 3 credits
The role of the courts in state and national politics; judicial decision making.

2145 American Constitutional Law 3 credits
Changing interpretations of the meaning of the U.S. Constitution, with particular attention to decisions of the U.S. Supreme Court.

2150 Civil Liberties 3 credits
Limits on government power and the rights of individuals, especially as enshrined in the Bill of Rights.

2155 Politics of Criminal Justice 3 credits
History and current functions of the criminal justice system, with particular attention to matters of race and class.

2156 Women and the Law 3 credits
What does the law say about a woman’s right to live free from violence and discrimination, control her own reproductive destiny, and create a family? How did the law get to where it is now, and where should it go from here? These are some of the questions addressed in this highly interactive course, with a particular emphasis on issues of employment discrimination (including sexual harassment), violence against women, family law, and reproductive rights.

2160 American Social Movements 3 credits
Theoretical perspectives appropriate to the analysis of political, religious, and cultural movements; case studies of civil rights movement, women’s movement, and others.

2165 Women and Politics 3 credits
Analysis of how gender shapes the social, economic, and political possibilities for women. Various topics addressed such as education, employment discrimination, violence against women, welfare, reproduction and other current political debates.

2170 Media and Politics 3 credits
Role of the “fourth estate” in American politics and policy making, with special focus on television and new media; the history and use of political propaganda.

2175 Race and Religion in American Politics 3 credits
How race and religion have shaped American institutions and fueled partisan strife; how these divisions continue to affect political discourse and social policy. Analysis of the political mobilization of African Americans and conservative evangelicals.

2180 The American Welfare State 3 credits
History of American efforts to provide economic and social security to its citizens; evaluation of their effects; debates about legitimate role of government in social welfare provision.

2190 through 2199 Topics in American Politics 3 credits
Selected issues in American politics.

2200 Politics of Advanced Democracies 3 credits
Contemporary issues in advanced industrial countries. Topics include political parties, party systems, political culture, ideologies, bureaucracy, interest groups, political economy, policy process, regional integration, and globalization.

2201 European Political Development 3 credits
The European Union as a polityeconomic experiment in transnational regional integration, supranational policy making, the “democracy deficit,” enlargement issues, neoliberalism, immigration, and Europe as regional imperium.

2205 African Politics 3 credits
Major political developments in contemporary Africa, including the impact of colonial administration on contemporary politics, ethnic conflict, the prominence of the military in Africa’s politics, neo-patrimonial modes of governance, and the prospects for reform and political change.

2210 East Asian Politics 3 credits
Pacific Ocean states as the power hub of the 21st century, with emphasis on Japan and China. Globalization dynamics in East Asia and the “Asian Tigers”; impact of the rise of East Asia on the United States, Canada, and Latin America.

2215 Latin American Politics 3 credits
Contemporary politics in Central and South America, focusing on the role of elites, the military, political parties, and civil society; attention to issues including neo-liberalism, the politics of identity, and inter-American politics.
2220 Middle East Politics 3 credits
Major issues confronting the Middle East; religion and politics; challenges to economic development and democratization.

2235 Israeli Politics 3 credits
Nature of and challenges to Israel’s democracy; how security concerns translate into domestic politics; the role of Zionism in Israel’s heritage and future; and the social and economic tests that the society has faced.

2240 Escaping Poverty, Oppression, and Violence: Problems of Development 3 credits
Sources and possible solutions to problems that limit the development of poor countries. Importance of colonialism, nationalism, alternative models of political and economic development; problems of instability, military rule, population, famine, debt.

2245 Race, Nation, and Ethnicity in a Global World 3 credits
Politics of identity, xenophobia, and ethnic conflict in developing and advanced societies.

2260 Democratization 3 credits
Comparative study of the wave of democratization that has swept much of Latin America, Asia, Africa, Eastern Europe, and the former Soviet Union; the political, economic, and social causes of this trend.

2265 Religion and Politics in Comparative Perspective 3 credits
Causes and impact of the rising importance of religion in the politics of selected countries.

2290 through 2299 Topics in Comparative Politics 3 credits
Selected issues in comparative politics.

2310 European Foreign Policy: Trends and Issues 3 credits
The European Union as an emerging international actor; globalization; EU as military power and as peacekeeper; NATO, the EU and U.S. hegemony; foreign policy objectives in the Maghreb states of North Africa; Russia; the Middle East, China, Latin America.

2315 International Law and Organizations 3 credits
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.

2320 Money and Power in International Politics 3 credits
Political foundations of economic policymaking, the struggle among states for control of the international economy, and the potentially violent after-effects of economic change.

2325 Intelligence and National Security 3 credits
Relationship between intelligence and national security policy making, with particular focus on the United States.

2330 Terrorism and Low-Intensity Conflict 3 credits
Investigates the two distinct but related phenomena of terrorism and guerilla warfare.

2335 Civil Wars and Intra-State Conflict 3 credits
Since 1945, the vast majority of wars have taken place within states rather than between them. Examine the causes of these wars as well as their international implications.

2340 International Relations of the Middle East 3 credits
Factors that help us better understand and analyze the intra-state relations of the Middle East and North Africa, including impact of colonialism, nationalism, regional crises and wars, and the Arab-Israeli conflict. Special attention to historical and contemporary interaction between the Middle East and the United States.

2345 Ethnic Conflict and Genocide 3 credits
Since 1945, the majority of conflicts have taken place within states rather than between them. Examines the causes of these conflicts, including the role of ethnicity and power and their international implications and addresses the mobilization process leading to mass killings.

2350 Game Theory in International Relations 3 credits
Using game theory as a tool to analyze problems in International Relations.

2390 through 2399 Topics in International Relations 3 credits
Selected issues in international relations.

2405 Classical Political Theory 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(s) in medieval thinkers; Machiavelli (Renaissance) and Rousseau (modern).

2410 Modern Political Theory 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, Kant). Hegel’s social theory. Marx’s critique.

2415 Contemporary Political Theory 3 credits
Trends in Anglo-American and in Continental political philosophy with emphasis on the development of democratic thought (Rawls, Nozick) and the critique of democratic theory as practicable within the contemporary state (Foucault, Habermas); postmodern thought (Levinas, Derrida).

2430 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, slavery, ethnicity, and racism; antidemocratic thought in America.

2435 Contemporary Political Ideologies 3 credits
Rise of ideology with mass politics and its political function; mass revolutionary movements like communism and fascism; democratic “New Politics”; religion as political ideology; Left and Right in contemporary America and other democracies.

2440 Israeli Political Thought 3 credits
Can Israel be both a Jewish State and a democratic state? This course focuses on historical and contemporary debates within Israel on the meaning of a Jewish democratic state. It also includes relevant Israeli and Palestinian Arab literature and commentary.

2490 through 2499 Topics in Political Theory 3 credits
Selected issues in political theory.

2505 Topics in Political Science 3 credits
Selected issues in the discipline of political science.

3110 Seminar: American Political Development 3 credits
Examination of durable patterns of institutional development and reallocations of institutional power discernible over the long sweep of American history.

3115 Seminar: Dynamics of American Politics 3 credits
Intensive survey of current research on American politics and political behavior including voting, elections, media effects, legislative politics, democratic theory, and political manipulation.

3175 Seminar: American Politics 3 credits
Seminar on issues in American politics.

3205 Seminar: Welfare States in Comparative Perspective 3 credits
Rise (and decline?) of the provision of social welfare benefits by states across the globe.

3210 Seminar: Resilience of Authoritarianism in the Middle East 3 credits
Contending approaches to explaining the democratic deficit in the Middle East.

3225 Seminar: Nation and State Building in the Post-Cold War Era 3 credits
American foreign policy, the democratic peace proposition and nation-state building; problems associated with democratizing transitional states emerging from collapsed authoritarian regimes; historical precedents for nation-state building; the military as state builder.

3230 Seminar: European Politics 3 credits
Seminar on current issues in European politics.

**3275 Seminar: Comparative Politics 3 credits**
Seminar on issues in comparative politics.

**3300 Seminar: International Security 3 credits**
Major theories, concepts, and research programs associated with the study of international security. Addresses such topics as grand strategy, military strategy and statecraft, war termination, alliance politics, civil military relations.

**3305 Seminar: Statecraft Analysis 3 credits**
When and why policymakers use different techniques of statecraft. Topics include military force, coercive diplomacy, economic sanctions, covert action.

**3310 Seminar: Globalization 3 credits**
Examines the extent to which claims that the international economy is more integrated than ever before are true and the implications globalization has for economic development.

**3315 Seminar: Humanitarian Intervention 3 credits**
Examines when, how, and why it is justified to militarily intervene in the domestic affairs of countries to protect lives and rights, and the political costs of doing so.

**3375 Seminar: International Relations 3 credits**
Seminar on issues in international relations.

**3475 Seminar: Political Theory 3 credits**
Seminar on issues in political theory.

**3575 Research Methods 3 credits**
Introduction to quantitative and/or qualitative research methods used in the social sciences generally and within political science more particularly.

**PRE-ENGINEERING**

Students interested in engineering may pursue the Pre-engineering major through the Combined Plan in Engineering with Columbia University School of Engineering or opt for a related major in Physics, Physical Sciences, Biology, Chemistry, Computer Science or Mathematical Sciences.

The Pre-engineering major is open to students who enter SCW with sufficient AP credits so that they can complete the major, general and **reduced** Jewish Studies requirements (4 semesters of Core + 14 JS credits) in 3 years—either one year in Israel and two years at SCW, or three years at SCW.
Pre-engineering majors must continue their studies through the Combined Program at Columbia University (BS). Students who do not continue at Columbia, must complete a total of 6 semesters of Core and change their major (e.g., Physical Sciences or a Shaped Major) in order to receive the BA degree from SCW.

To be eligible to apply for admission to Columbia through the Combined Program in Engineering, Pre-engineering majors must meet the SCW graduation requirements, other than the 128 credits, as well as all Columbia requirements listed in the Columbia Combined Plan Guide (available at the Academic Advisement Center). Provided they maintain a 3.3 GPA overall with no grade lower than a B in courses required by Columbia and receive the recommendation of the pre-engineering advisor, students enrolled at YU prior to Fall 2019 are guaranteed admission to the two-year program at Columbia. For students who enroll in YU beginning with Fall 2019, admission will be competitive with Columbia reserving the right to admit students based upon criteria such as GPA in Columbia-required courses, overall GPA, recommendations, etc. If admitted, students should file a Maintenance of Matriculation Form at SCW. After successfully completing the two year program at Columbia students file for a BA from YU, and a BS from Columbia.

Students interested in the Columbia Program (BS)) should meet with Dr. Lea Santos.

MAJOR: Stern College for Women
Forty+ credits: CHEM 1045C; COMP 1300C; ECON 1010; MATH 1412, 1413, 1510; PHYS 1051C, 1052C, plus three (3) or more courses as required by the particular track of engineering chosen. See Dr. Lea Santos for more details.

PSYCHOLOGY (PSYC)

MAJOR: Stern College for Women
General Track: Thirty-seven credits in psychology: PSYC 1010, 1107, 2100C, 2150, 3105, 3800;
One course from each of the following two groups:
(1) PSYC 1301, 2414, 2430;
(2) PSYC 2140, 3804;
plus four additional psychology courses; plus STAT 1021.

Neuroscience Track: Thirty-seven credits in psychology: PSYC 1010, 1107, 2100C, 2150, 2414, 3105, 3800, 3804, 3810, 3815 plus two additional psychology courses; plus STAT 1021.

Students planning to do graduate work should consult the department faculty early in their course of study concerning a program of courses as well as other preparation necessary for graduate study.

MINOR: Stern College for Women
Sixteen credits in psychology, including PSYC 1010, 1100 or 1107, 2100C, 3105, 2150 or 3800. STAT 1021 is also required.

1010 Introductory Psychology 3 credits
One-semester survey of topics in experimental methodology, biological basis of behavior, sensation, perception, learning, cognition, development, personality, assessment, and abnormal and social psychology. This course is a prerequisite for all upper level psychology courses.

1100 Theories of Human Development 3 credits
Course will include the study of grand theories, e.g. Psychoanalytic, Social-Learning, Cognitive Developmental, Biological/Epigenetic, as well as area-specific theories like Attachment Theory, theories of Moral Development, and theories of Language Development. Attention will be given to the notion of theory, specifically of developmental theory, to theory in guiding research and to the synergetic relation between data and theory. Prerequisite: PSYC 1010.

1107 Developmental Psychology: Life Span 3 credits
Introduces the student to the theory, empirical research, and applied issues of developmental psychology from conception to old age. Focus on cognitive, personality, social, and emotional aspects of development as well as on values and moral behavior. Special emphasis is given to stability and change throughout the life span in each of these areas, as well as to the mechanism of development and change. Prerequisite: PSYC 1010.

1110 Cognitive and Social Development of the 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: PSYC 1100 or 1107, 2100C.

1130 Cognitive and Social Development of the Adolescent and Young Adult 3 credits
Processes and problems of adolescence and early adulthood; personality development in its relationship to cultural patterns. Prerequisite: PSYC 1100 or 1107; 2100C.

1140 Adult Development and Aging 3 credits
A multidimensional perspective on the reciprocal influences of biology and behavior, psychosocial influences, and psychological and physical functioning in the aged. Demographics of the aging population, physiological changes, theories of successful aging, social issues, life transitions, mental health and dementia, death and dying. Prerequisites: PSYC 1100 or 1107, 2100C.

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: PSYC 2100C.

2100C Experimental Psychology 4 credits
Theory and practice of research methodology and evaluation of experimental research in psychology. Students perform individual experiments, prepare reports of results, and are introduced to the literature of experimental psychology. This course is a prerequisite for most upper-level psychology courses. (lecture: 3 hours; lab: 2 hours). Prerequisite: PSYC 1010; Prerequisite or corequisite: STAT 1021.

2140 Learning 3 credits
Study of the factors that govern behavior change. Analysis of empirical data and comparison of the behavioral, cognitive, and biological approaches to understanding the process of learning. Discussion of practical applications of learning theory to areas such as therapy, education, and parenting. Prerequisite: PSYC 2100C.

2150 Cognitive Psychology 3 credits
Analysis of empirical literature and theories relating to topics of size, distance, motion and form perception, attention, memory, language, and problem solving. Prerequisite: PSYC 2100C.

2153 Mind, Language, and Consciousness 3 credits
An exploration of the nature of consciousness that emerges from an in-depth study of fundamental perceptual, attentional, memory, and language functions. Prerequisites: PSYC 2100C, 2150 or permission of the instructor.

2414 Abnormal Psychology 3 credits
Study of psychopathology in the context of the integrative model; assessment methods, diagnostic criteria, etiology and treatment are discussed. Prerequisite: PSYC 1010.

2430 Introduction to 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: PSYC 2100C, 2414.

3105 Social Psychology 3 credits
Dynamic study of social behavior; social learning, interpersonal attraction, aggression, attitudes, conformity, and social influence processes. Prerequisite: PSYC 2100C.

3125 Seminar in Emotions 3 credits
An examination of the theoretical and methodological approaches to the study of emotion. Emphasis will be placed on the physiological, expressive, subjective, and
behavioral emotional responses to experience. A laboratory component is integrated into the classroom experience. 
Prerequisite: PSYC 2100C.

3128 Seminar in Moral Psychology 3 credits
This course will review theory and research on moral psychology, with a focus on the underlying mental processes that guide moral evaluation across the lifespan.
Prerequisite: PSYC 2100C.

3130 The Development of Intergroup Cognition 3 credits
Students will gain an in-depth understanding of the issues that are addressed by research in the development of intergroup cognition. This will include a general understanding of the history of how psychologists have studied intergroup cognition in both children and adults, as well as a grasp of the theories of intergroup cognition that are currently debated by researchers. Students will learn the methods that are generally used to study these issues, and will be able to come up with an original research idea that addresses one of the course topics.
Prerequisite: PSYC 1107, 2100C.

3132 Cross-Cultural Social Development 3 credits
An examination of how culture shapes our social behavior through theoretical perspectives and classic and contemporary research. Explores cultural differences in the development of emotions, morality and self-concept, and in the influence of family, peers, the media, and schooling.
Prerequisite: PSYC 2100C.

3165 Human Sexuality 3 credits
Overview of human sexuality from psychological, sociological and physiological perspectives. Topics include: historical and cultural influences on sexuality, research methodology, gender-typing and gender roles, attraction, love and relationships, sexual behavior and orientation, sexual behavior across the lifespan, reproduction, sexual dysfunction.
Prerequisite: PYSC 1107, upper junior/senior status.

3174 Psychology of Women 3 credits
Explores the unique psychological experience of women. Addresses the topics of gender development, socialization, communication, cognition, work, personality and social interactions, contemporary life, health and reproduction, and violence and mental health, specifically as they relate to women.
Prerequisite: PSYC 2100C.

3214H Research Seminar I 3 credits
Participation for six hours per week for 12 weeks in an ongoing research project with supervision by an on-site investigator and Stern College faculty member. Focuses on issues related to the conduct of research in institutional settings, including research ethics. Students gain practical experience in reviewing the literature, data collection and management, and scientific writing.
Prerequisites: PSYC 2100C and permission of the instructor.
3400 Educational Psychology 3 credits
(Same as EDUC 1210.)
Application of principles of learning, motivation and measurement to education.
Prerequisites: PSYC 1107.

3411 Forensic Psychology 3 credits
Role of psychology in the legal system; child welfare, criminal justice, personal liability issues; role of the psychologist as an expert witness.
Prerequisites: PSYC 2100C, 3800, and either PSYC 1301 or 2414 or 2430.

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.

3601 Health Psychology 3 credits
An examination of 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: PSYC 1010.

3610 Public Health 3 credits
This course provides an introduction to fundamental concepts in public health including epidemiology, psychological and sociocultural contexts of health, health promotion and health disparities, the U.S. healthcare system, public health interventions, and ethical issues in public health research and practice.
Prerequisites: PSYC 1010, either experimental psychology or a science course with a lab, and junior status.

3712 Special Education Methods: Applied Behavioral Analysis 3 credits (Same as EDUC 4061)
This course includes a comprehensive and critical presentation of the theory, research, and methodology of applied behavior analysis. Controversial issues such as symptom substitution and extrinsic vs. intrinsic motivation are addressed and discussed. Although the application of Applied Behavior to children with special needs is presented, the course emphasizes the value and applicability of this approach for improving learning, attention, and social behavior in all children (and adults).

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: PSYC 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: PSYC 2100C.

3810 Behavioral Neuroendocrinology 3 credits
This course will examine the hormonal effects on the brain and behavior. We will discuss the role of hormones in sex differences, parental behavior, learning and memory, and affective disorders. Both human and animal models will be considered. Prerequisite: PSYC 3804 or BIOL 3830 or BIOL 3728C

3815 Cognitive Neuroscience 3 credits
Cognitive Neuroscience is an investigation into the neurobiological underpinnings of cognitive functioning. The course will focus on neural pathways, clinical studies and contemporary research in the cognitive domains of object perception and form recognition, memory, attention, and language. Some classes will be devoted to lab activities including reading an MRI, dissecting a brain, and using behavioral measures to investigate brain functioning. Prerequisite: PSYC 2150

3820 Neuropsychology 3 credits
Clinical and research issues in neurological psychology and behavioral neurology. Topics include neuroanatomy, diagnostic measures, traumatic brain injury, stroke, memory dysfunction, and pediatric and developmental neuropsychology. Prerequisites: PSYC 2100C, 3804.

3830 Positive Psychology 3 credits
The relatively new field of Positive Psychology studies that which “goes right in life” and the biological, cognitive, personal, social, and institutional factors that are said to contribute to a healthy life. We will review and critically examine the concepts, research methods, and data of this emerging field. Prerequisite: PSYC 3105, 3800

3842 Contemporary Problems in Psychology 3 credits
Examines issues in modern psychology that confront both laymen and professionals in the modern United States from a point of view that allows students to better understand their causes. Topics are chosen from among homelessness in the urban United States; the effects of early full-time day care; substance abuse; domestic violence; child molestation; mental health care versus managed health care. Prerequisites: PSYC 2100C, 2414.

3843 Psychology and Public Policy 3 credits
Explores and integrates the relationship between the various areas of psychology and the functioning of the many aspects of the social, legal, and regulatory spheres of our society. Prerequisites: PSYC 2100C or PSCY 2414 or PSYC 3105.

3845 Psychology and Religion 3 credits
In this course we examine the assumption that constructs and theories in Psychology and in Religion must be in conflict. We compare and contrast ideas about human nature and human conduct in each of these fields. Using the respective data bases of each of the two fields, we separate popular notions of what each approach is purported to hold, from what each field actually does hold. We search for a constructive relationship between Psychology and Religion.
Prerequisite: PSYC 2100C or a research methods course or senior status.

3847 Psychosocial Problems in the Organized Jewish Community 3 credits
Explores the research (psychological as well as sociological, and both epidemiological and etiological) done Jewish communities and in the wider community with an eye to its applicability to the Jewish community. Topics include dropouts, drugs, spousal abuse, child abuse, and eating disorders. Research questions are formulated to guide further questioning, research, and thinking on these problems.

4925-4928 Topics in Psychology 3 credits
Selected topics and issues in Psychology. Topics may vary by semester.

4930; 4931; 4932 Special Topics in Psychology 3 credits
Seminar for majors involving extensive reading, discussion of several topics, and preparation of original papers. Topics are selected from among diverse areas in psychology—including personality, developmental, social, clinical, applied, cognition, psychobiology, language, and learning—and vary from semester to semester.
Prerequisite: senior status or permission of the instructor.

PUBLIC HEALTH (PUB)

MINOR: Stern College for Women
BIOL 1005 (or BIOL 1011C, 1012C); PUB 1236, 3610; STAT 1021; plus three (3) of the following courses: BIOL 4023C; ECON 2531; PHIL 3500; PSYC 2414, 3165, 3601; PUB 3221.

1236 Epidemiology 3 credits
Epidemiology is the study of the distribution and determinants of health and disease in human populations. In recent years, the epidemiological approach has been used to address a wide range of problems, including infectious diseases, genetic risk, environmental threats, social stratification patterns, substance use, violence prevention, and even the spread of knowledge and innovation through social networks. This course introduces the basic principles of epidemiologic study design, analysis, and interpretation. Course activities will consist of lectures, computer lab lessons in using statistical software, written assignments, exams, and critical appraisal of both classic and contemporary research articles. We will learn how to calculate and interpret some basic epidemiological measures, and investigate the possibilities of using data to make causal inferences. We will examine the strengths of epidemiological science as well as its limits.
Prerequisite: STAT 1021 recommended.
3221 Nutrition 3 credits
Clinical nutrition, directed to common medical disorders, relevant physiology, nutritional implications, and therapy. Nutrition in gastrointestinal disorders, diabetes, cancer, and AIDS are discussed.
This course does not count toward the Biology major.

3610 Public Health 3 credits
This course provides an introduction to fundamental concepts in public health including epidemiology, psychological and sociocultural contexts of health, health promotion and health disparities, the U.S. healthcare system, public health interventions, and ethical issues in public health research and practice.
Prerequisites: PSYC 1010, either experimental psychology or a science course with a lab, and junior status.

SCIENCE (SCIE)
1050 Science: Fundamentals and Application 3 credits
This course will examine science as it relates to the world around us in our everyday lives with an emphasis on problem-solving skills. Students will be able to demonstrate an understanding of the scientific concepts presented in class and will have a solid understanding of the ways in which science is integrated into the world around them.

SEMITIC LANGUAGES (SEMI)
5111, 5112 Elementary Arabic 3 credits.
Introduction to the grammar and syntax of classical and modern literary Arabic.

SHAPED MAJOR
Students may structure an individual major to meet specialized academic goals. Interested students should design a major with an academic adviser early in their academic career. They should submit the Shaped Major allocation chart to the Office of the Registrar for review and approval of the dean. Students wishing to undertake a combined plan in occupational therapy with Columbia University or a program in one of a variety of areas in art and fashion at the Fashion Institute of Technology should develop a Shaped Major to accommodate the special requirements of these programs.

SOCIOLOGY (SOCI)
MAJOR: Stern College for Women
Thirty credits. SOCI 1001, 1504, 1640, and an additional 21 credits in SOCI courses. PSYC 3105 may count toward the major. STAT 1021 is highly recommended.
MINOR: Stern College for Women
SOCI 1001, 1504, and an additional 9 credits in SOCI courses. PSYC 3105 may count toward the minor.

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; theories of deviance; social sources of deviance; study of various types of deviant behavior and attributes; reduction of deviance; coping with deviance and the reintegration of the deviant into society. Prerequisite: SOCI 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: SOCI 1001.

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: SOCI 1001.

1204 Cultural Anthropology 3 credits
The study of people in relation to their geographic and socio-cultural 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.

1205 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.

1206 Introduction to Archaeology 3 credits
An introduction to world prehistory, with an emphasis on the rise and fall of social and political complexity. Topics range from cave paintings and early farmers to the first civilizations in Mesopotamia, Egypt, China, and Central and South America.

1209 Sociology of Israeli Identities 3 credits
Does the State of Israel unite or divide World Jewry? Does being Jewish unite or divide Israelis? Exploration of socio-historical forces, the diversity of immigrant and indigenous cultures, conflicting religions and ideologies within the geographical space we call Israel.

1211 Archaeology of Israel 3 credits
Through the lens of archaeology, this course probes the history of the Land of Israel from the earliest farmers to the end of the Roman/Byzantine era.

1212 Archaeology of Israel Fieldwork 3 credits
Academic and practical experience in the recovery and analysis of the material remains of an ancient culture. Dig and survey the site, wash and read pottery at the base camp, and learn about the archaeology of Israel and archaeological methodology.

1215 Sociology of Religion 3 credits
Study of 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. Prerequisite: SOCI 1001.

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. Prerequisite: SOCI 1001.

1233 Introduction to Public Health 3 credits
This course provides an introduction to fundamental concepts in public health including epidemiology, psychological and sociocultural contexts of health, health promotion and health disparities, the U.S. healthcare system, public health interventions, and ethical issues in public health research and practice. Prerequisites: PSYC 1010, either experimental psychology or a science course with a lab, junior status or permission of instructor.

1236 Epidemiology 3 credits
Epidemiology is the study of the distribution and determinants of health and disease in human populations. In recent years, the epidemiological approach has been used to address a wide range of problems, including infectious diseases, genetic risk, environmental threats, social stratification patterns, substance use, violence prevention, and even the spread of knowledge and innovation through social networks. This course introduces the basic principles of epidemiologic study design, analysis, and interpretation. Course activities will consist of lectures, computer lab lessons in using statistical software, written assignments, exams, and critical appraisal of both classic and contemporary research articles. We will learn how to calculate and interpret some basic epidemiological measures, and investigate the possibilities of using data to make
causal inferences. We will examine the strengths of epidemiological science as well as its limits. Prerequisite: STAT 1021 recommended.

**1283 Sociology of Education 3 credits**
An exploration of the social organization of educational institutions, utilizing various sociological perspectives to offer views on equality/inequality, organization, curriculum, and achievement. Prerequisite: SOCI 1001.

**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 relationship among city, state, and federal government; critical evaluation of classical theorists; contemporary problems of the city. Prerequisite: SOCI 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 versus ascribed status. Prerequisite: SOCI 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: SOCI 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: SOCI 1001.

**1640 Sociological Theories 3 credits**
We begin with an examination of the foundational theories of three traditions within modern sociology, focusing on how these theories were developed in the writings of Karl Marx, Emile Durkheim, Max Weber, and George Herbert Mead. This is followed by an examination of more recent theorists such as DuBois, Berger, Simmel, Marcuse, Habermas, and Dorothy Smith. Prerequisite: SOCI 1001.

**1730 The American Jewish Community 3 credits**
The effects Jews have had on American society and how American society has influenced Judaism, the Jewish community, Jewish identity and links with Israel. Long term consequences of significant demographic changes within America and Jewish Americans. Relationships between Jews and other societal groups.
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.

1757 Race, Caste, and Ethnicity 3 credits
Responsibilities and pitfalls of ascribed status; various approaches to understanding 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.
Prerequisite: SOCI 1001.

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: SOCI 1001.

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.

2210 The Family 3 credits
Analysis of the family in historical context. We explore popular myths of the family; changes in the way the family is conceptualized. Who constitutes ‘family’? Gender roles, blended families, divorce and remarriage rates are all explored with respect to the idealized and the actual family structure. Family as both a private and a public institution.
Prerequisite: SOCI 1001.

2305 Violence, Schools, and Education 3 credits
Violence in schools is an increasing public concern, as education- a crucial determinant of life chances- may be disrupted by violence. This interdisciplinary course will address causes, manifestations, and consequences of school violence, and assess efforts to prevent it.

4901, 4902 Independent Study
See Academic Information and Policies section.

4925-4928 Topics in Sociology 3 credits
Varies by semester. May include such topics as Race, Class, and Gender.
SPANISH (SPAN)

1101-1102 Elementary Spanish 3 credits
Essentials of grammar, conversation, comprehension, reading, and translation. Spanish 1101 is not open to students who have had high school Spanish. Those who have had one year of high school Spanish may take 1102.

1201, 1202 Intermediate Spanish 3 credits
Review of grammar, composition, conversation, culture, reading and analysis of literary selections. SPAN 1201 is for students who have had two years of high school Spanish. Students who have had three years of high school Spanish may take SPAN 1202. Prerequisite: SPAN 1102 or two years of high school Spanish.

SPEECH PATHOLOGY/ AUDIOLOGY (SPAU)

MAJOR: Stern College for Women
Thirty-five credits in SPAU courses as follows: 3000, 3001, 3011, 3012, 3015, 3024, 3025, 3033, 3034, 3112, 3320, 3940; BIOL 1005C; PSYC 1010; STAT 1021; and a physical science course. Psyc 1107 is recommended. Twelve (12) undergraduate credits in education are strongly recommended in fulfillment of the New York State Teacher Certification requirement, needed to work as a speech-language pathologist with children ages 3-21 years old in New York State.

3000 Survey of Communication Disorders 3 credits
Overview of the scope of speech-language pathology/audiology practice and professions, including pediatric phonological, motor-speech, and language development and disorders; adult neurogenic communication disorders; disorders of voice, fluency, and hearing, and an introduction to counseling. Orientation to research in the field of communications disorders and to writing in APA research style.

3001 Development of Speech and Language 3 credits
Processes and products of typical language development from infancy to childhood; the development of early communication in the context of cognitive, social, physical, and emotional growth before and after first words, first sentences, and nascent conversations. Cultural and individual differences in language development. Continuation of student experience with research and academic writing in the field of communications disorders. Relevance of basic research and developmental "norms" to assessing and treating children with disabilities. Initial clinical experience interacting with a typically developing child, collecting a professional language sample, and analyzing it as a clinician. Prerequisite: SPAU 3000

3011 The Speech Mechanism 3 credits
Anatomy, physiology, and neurology of the respiratory, voice and speech mechanisms. Normal and abnormal development and function considered in relation to speech articulatory, voice and language development and performance.
Prerequisite: SPAU 3112

**3012 The Hearing Mechanism 3 credits**
Anatomy, physiology, and neurology of the hearing mechanism. Normal and abnormal development and function considered in relation to speech and language development and performance and auditory function. Theories of hearing, acoustics, and psychoacoustics with consideration of underlying concepts and implications to function.

**3015 Introduction to Speech Science 3 credits**
Acoustical components of speech and their physiological correlates; information-bearing elements in the speech signal and their acoustic/auditory perceptual processing; theories of voice production; speech spectrography and other instrumentation as analysis tools.
Prerequisites: SPAU 3001, 3112.

**3024 Communication Disorders in Adults 3 credits**
Acquired “neurogenic” language, speech, and swallowing disorders in adults, including those associated with stroke and progressive pathologies such as Parkinsonism; including aphasia, right hemisphere injury, traumatic brain injury, cerebral palsy, apraxia, dysarthria, dementia, and dysphagia. Further discussion of fluency and voice disorders in adults. Continuation of undergraduate experience engaging in research and academic writing in the field of communication disorders.
Prerequisites: SPAU 3000, 3011.

**3025 Communication Disorders in Children 3 credits**
Etiologies of and treatment for developmental language disorders, language-based learning disabilities; reading development and language-based reading disorders, autistic spectrum disorders, intellectual disability, pediatric motor-speech disorders, disfluency, hearing loss, and syndromes (including Down syndrome), and exploration of the association between developmental disabilities (such as autistic spectrum disorder and intellectual disability) and developmental speech-language delay and disorder. Continuation of student experience engaging in research and academic writing in the field of communications disorders.
Prerequisites: SPAU 3000, 3001

**3033 Audiology I 3 credits**
Basic audiologic procedures, including pure tone, speech audiometry; masking; physiologic testing I—impedance/admittance, otoacoustic emission; basic etiologies and differential diagnoses for disorders of hearing; special populations including pediatric and functional testing.
Prerequisite: SPAU 3012.

**3034 Audiology II 3 credits**
Diagnostic aspects of audiology, stressing site-of-lesion testing, evaluation of vestibular function, advanced speech audiometry, central testing, non-organic hearing loss; evoked potential procedures, industrial audiology. Neurophysiological Intraoperative Monitoring.
Prerequisite: SPAU 3033.
3112 Phonetics 3 credits
Analysis of American English speech sounds and their variations; articulatory and physiological aspects of phonetics; acoustic phonetics and perceptual phonetics; phonetic transcription using the International Phonetic Alphabet.

3320 Aural Rehabilitation 3 credits
Types and application of amplification, auditory training, and other communication tools for the hearing-impaired; special problems of the pediatric and geriatric populations. Special devices such as cochlear implants - applications and analyses. Prerequisite: SPAU 3033.

3331; 3332 American Sign Language I, II 2 credits
Basic instruction and practice in sign language as used by the hearing-impaired and as an augmentative system to facilitate communication for other communicatively challenged individuals.

3940 Clinical Observation in Communication Disorders 2 credits
Students observe speech/language therapy sessions and audiological evaluations at community facilities (including schools, hospitals, and private practices). In class work on learning to analyze these therapy and evaluation sessions, determining such things as goals and therapeutic techniques. Students must be available at least one full morning per week until 1pm. (lecture: 1 hour; observation: 25 hours). Prerequisites: SPAU 3025, 3033; Pre- or Corequisite: 3024.

4925-4930 Selected Topics 3 credits
Selected topics in Speech Pathology and Audiology

SPEECH AND DRAMA (SPEE)

1010 Speech Communication 3 credits
Effective informal and formal public speaking focusing on the informative and persuasive purposes. Focuses on logical organization; psychological motivation; research of topics; precise vocabulary; clear and pleasant vocal patterns; and application of sound rhetoric to the communication of ideas.

2113; 2114 Theater Arts 3 credits
Survey of plays from Shakespeare to the present. Theatrical and dramatic analysis of selected plays. Study and development of the power and skills of interpretation necessary for the artisan, be it actor, director, designer, writer, or producer, to reflect the ideas of the playwright. The class attends several professional productions.

2090 Play Production 2 credits
This course is intended to provide a foundation of understanding about a variety of aspects of theatre production; function of theater technicians and management; use of stage through lights, set design, costume design, actors and directors; producing and
publicity; role interpretation and acting; theatrical and dramatic analysis of selected plays. Practical experience is met through participation in Dramatics Society Production.

STATISTICS (STAT)

1021 Introduction to Statistics 3 credits
Sources of data; descriptive statistics: data display, univariate measures of location and variability; basic probability, normal curve and its applications; correlation and regression. Sampling distributions. Inferential procedures in one- and two-sample problems: estimation, hypothesis testing. Chisquare.
See MATH 1320 and 1460 for Mathematical Statistics and Probability Theory.

TAX (TAX)
See Accounting

WRITING (WRIT)

MINOR: Stern College for Women

The Writing minor (15 credits) is open to all majors and offers students the opportunity to develop and practice a variety of writing skills. Students may choose from among courses in Journalism, TV writing, screenwriting, academic essay writing, blogging, courses in creative writing, business writing and Advanced Writing Skills. English majors may count one of the Writing Minor courses toward the English major.

WOMEN’S STUDIES (WMNS)

MINOR: Stern College for Women

Fifteen credits. The women’s studies minor offers students the opportunity to take an inter-disciplinary approach to the study of women and society. Following the required introductory course, ENGL 2901, students may choose from among designated courses in the departments of art, English, history, Jewish studies, psychology, and sociology. Specific courses counting toward the minor are listed in the course schedule for each semester.

1020 Introduction to Women’s Studies: Theory and Practice 3 credits
This course introduces some of the issues and debates that characterize “Women’s Studies.” Women’s Studies itself is an academic discipline that grew out of the 20th century women’s movement. It draws on many different disciplines in the humanities and the sciences in its efforts to describe and understand women’s lives. (May be taught by faculty in other departments; required for the minor in Women’s Studies).
4920-4925 Topics in Women’s Studies 2-3 credits
Topics course involving analysis of topics of contemporary interest in the interdisciplinary field of Women's Studies. May be repeated since the subject matter varies term to term.