
NEW YORK UNIVERSITY BULLETIN
2017 - 2019



*Leonard N. Stern
School of Business
The Undergraduate College*

ANNOUNCEMENT FOR THE 118TH AND 119TH SESSIONS

*TISCH HALL
40 WEST FOURTH STREET
NEW YORK, NEW YORK 10012*

Notice: The policies, requirements, course offerings, schedules, activities, tuition, fees, and calendar of the school and its departments and programs set forth in this bulletin are subject to change without notice at any time at the sole discretion of the administration. Such changes may be of any nature, including, but not limited to, the elimination of the school or college, programs, classes, or activities; the relocation of or modification of the content of any of the foregoing; and the cancellation of scheduled classes or other academic activities.

Payment of tuition or attendance at any classes shall constitute a student's acceptance of the administration's rights as set forth in the above paragraph.



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AN INTRODUCTION TO

New York University

The founding of New York University in 1831 by a group of eminent private citizens marked a historic event in American education. In the early 19th century, the major emphasis in higher education was on the mastery of Greek and Latin, with little attention given to modern subjects. The founders of New York University intended to enlarge the scope of higher education to meet the needs of those aspiring to careers in business, industry, science, and the arts, as well as in law, medicine, and the ministry. The opening of the University of London in 1828 convinced New Yorkers that New York, too, should have a new university that fed off the energy and vibrancy of the city.

The first president of New York University's governing

council was Albert Gallatin, former adviser to Thomas Jefferson and secretary of the treasury in Jefferson's cabinet. Gallatin and his cofounders envisioned a "national university" that would provide a "rational and practical education for all."

The result of the founders' foresight is today a university that is recognized both nationally and internationally as a leader in scholarship. NYU is one of only 26 private universities in the nation to have membership in the distinguished Association of American Universities. Students come to NYU from all 50 states and more than 140 foreign countries.

New York University includes three degree-granting campuses: New York City, United States; Abu Dhabi, United Arab Emirates; and Shanghai,

China. In addition, the University has 11 global academic centers: Accra, Ghana; Berlin, Germany; Buenos Aires, Argentina; Florence, Italy; London, England; Madrid, Spain; Paris, France; Prague, Czech Republic; Sydney, Australia; Tel Aviv, Israel; and Washington, DC, United States. Although overall the University is large, the divisions are small-to moderate-size units—each with its own traditions, programs, and faculty.

Enrollment in the undergraduate divisions at NYU ranges between 129 and 7,330, and the University offers nearly 11,000 courses and grants more than 25 different degrees. Classes vary in size, but the University strives to create a sense of community among students within and among the different disciplines.

The Schools, Colleges, Institutes, & Programs of the University

(in order of their founding)

1832	College of Arts & Science <i>cas.nyu.edu</i>	1890	Steinhardt School of Culture, Education, & Human Development <i>steinhardt.nyu.edu</i>	1965	Tisch School of the Arts <i>tisch.nyu.edu</i>
1835	School of Law <i>law.nyu.edu</i>			1972	Gallatin School of Individualized Study <i>gallatin.nyu.edu</i>
1841	School of Medicine <i>med.nyu.edu</i>	1900	Leonard N. Stern School of Business <i>stern.nyu.edu</i>	1972	Liberal Studies <i>liberalstudies.nyu.edu</i>
1854	Tandon School of Engineering (January 2014) <i>engineering.nyu.edu</i>	1922	The Institute of Fine Arts <i>nyu.edu/gsas/dept/fineart</i>	2006	Institute for the Study of the Ancient World <i>isaw.nyu.edu</i>
1865	College of Dentistry <i>dental.nyu.edu</i> (including the Rory Meyers College of Nursing [1947], <i>nursing.nyu.edu</i>)	1934	School of Professional Studies <i>sps.nyu.edu</i>	2010	NYU Abu Dhabi <i>nyuad.nyu.edu</i>
1886	Graduate School of Arts & Science <i>gsas.nyu.edu</i>	1934	Courant Institute of Mathematical Sciences <i>cims.nyu.edu</i>	2013	NYU Shanghai <i>shanghai.nyu.edu</i>
		1938	Robert F. Wagner Graduate School of Public Service <i>wagner.nyu.edu</i>	2015	College of Global Public Health <i>publichealth.nyu.edu</i>
		1960	Silver School of Social Work <i>socialwork.nyu.edu</i>		

New York University & New York

NEW YORK UNIVERSITY LIBRARIES

The Elmer Holmes Bobst Library, designed by Philip Johnson and Richard Foster, is the flagship of a 10-library system that provides access to the world's scholarship. The Division of Libraries holds 4 million book volumes. Its online catalog, BobCat, contains 3.6 million records, including 1.1 million e-books, 110,000 e-journals, 261,893 serial titles, and 163,000 audio and video recordings. The special collections are uniquely strong in the performing arts, radical and labor history, and the history of New York and its avant-garde culture.

Bobst Library serves as a center for the NYU community's intellectual life. It offers approximately 2,500 seats for student study. The Avery Fisher Center for Music & Media is one of the world's largest academic media centers and, as of summer 2016, is housed in new quarters in the library with advanced technology to support the newest modes of music listening. The Digital Studio offers a constantly evolving, leading-edge resource for faculty and student projects, and promotes and supports access to digital resources for teaching, learning, research, and arts events. The Data Service Studio provides expert staff and access to software, statistical computing, geographical information systems analysis, data collection resources, and data management services in support of quantitative research at NYU.

The Fales Library, a special collection within Bobst Library, is home to the unparalleled Fales Collection of English & American Literature; the Marion Nestle Food Studies Collection, the country's largest trove of cookbooks, food writing, pamphlets, paper, and archives, dating from the 1790s; and the Downtown Collection, an extraordinary multimedia archive documenting the avant-garde New York art world since 1975. Bobst Library also houses the Tamiment Library, the country's leading repository of research materials in the history of left politics and labor. Two fellowship programs bring scholars from around the world to Tamiment to explore the history of the Cold War and its wide-ranging impact on American institutions and to research the history of progressive social policies and promote public discussion of their role in our society. Tamiment's Robert F. Wagner Labor Archives contain, among other resources, the archives of the Jewish Labor Committee and of more than 200 New York City labor organizations. Fales, Tamiment, and the University Archives hold over 41,000 linear feet of archival materials.

Beyond Bobst, the library of the renowned Courant Institute of Mathematical Sciences focuses on research-level material in mathematics, computer science, and related fields. The Stephen Chan Library of Fine Arts at the Institute of Fine Arts (IFA) houses the rich collections that support the research and curricular needs of the institute's graduate pro-

grams in art history and archaeology. The Jack Brause Library at SPS Midtown, the most comprehensive facility of its kind, serves the information needs of every sector of the real estate community. The Library of the Institute for the Study of the Ancient World (ISAW) is a resource for advanced research and graduate education in ancient civilizations from the western Mediterranean to China. The Bern Dibner Library serves the NYU Tandon School of Engineering. The libraries of NYU Abu Dhabi and NYU Shanghai provide access to all the resources in BobCat and are building their own collection of books and other print materials in support of the schools' developing curricula. Complementing the collections of the Division of Libraries are those of the Health Sciences Library and School of Law.

The NYU Division of Libraries continually enhances its student and faculty services and expands its research collections, responding to the extraordinary growth of the University's academic programs in recent years and to the rapid expansion of electronic information resources. Bobst Library's professional staff includes more than 38 subject specialists who select materials and work with faculty and graduate students in every field of study at NYU. The staff also includes specialists in undergraduate outreach, instructional services, preservation, geospatial information, digital information, scholarly communication, intellectual property, and more.

THE LARGER CAMPUS

New York University is an integral part of the metropolitan community of New York City—the business, cultural, artistic, and financial center of the nation and the home of the United Nations. The city's extraordinary resources enrich both the academic programs and the experience of living at New York University.

Professors whose extracurricular activities include service as editors for publishing houses and magazines; advisers to city government, banks, school systems, and social agencies; and consultants for museums and industrial corporations bring to teaching an experience of the world and a professional sophistication that are difficult to match.

Students also, either through coursework or outside activities, tend to be involved in the vigorous and varied life of the city. Research for term papers in the humanities and social sciences may take them to such diverse places as the American Museum of Natural History, the Museum of Modern Art, a garment factory, a deteriorating neighborhood, or a foreign consulate.

Students in science work with their professors to help resolve such problems of immediate importance for urban society as the pollution of waterways and the congestion of city streets. Business majors attend seminars in corporation boardrooms and intern as executive assistants in business and financial houses. The schools, courts, hospitals, settlement houses,

theaters, playgrounds, and prisons of the greatest city in the world form a regular part of the educational scene for students of medicine, dentistry, education, social work, law, business and public administration, and the creative and performing arts.

The chief center for undergraduate and graduate study is at Washington Square in Greenwich Village, long famous for its contributions to the fine arts, literature, and drama and its personalized, smaller-scale, European style of living. NYU itself makes a significant contribution to the creative activity of the Village through the high concentration of faculty and students who reside within a few blocks of the University. NYU's Tandon School of Engineering, located in Downtown Brooklyn, connects academics with creative research and technology in the burgeoning Tech Triangle and is just a short subway ride away from Washington Square.

University apartment buildings provide housing for over 2,100 members of the faculty and administration, and University student residence halls accommodate over 11,000 men and women. Many more faculty and students reside in private housing in the area.

A PRIVATE UNIVERSITY

Since its founding, New York University has been a private university. It operates under a board of trustees and derives its income from tuition, endowment, grants from private foundations and government, and

gifts from friends, alumni, corporations, and other private philanthropic sources.

The University is committed to a policy of equal treatment and opportunity in every aspect of its relations with its faculty, students, and staff members, without regard to race, color, religion, sex, sexual orientation, gender and/or gender identity or expression, marital or parental status, national origin, ethnicity, citizenship status, veteran or military status, age, disability, and any other legally protected basis.

Inquiries regarding the application of the federal laws and regulations concerning affirmative action and antidiscrimination policies and procedures at New York University may be referred to Mary Signor, Executive Director, Office of Equal Opportunity, New York University, 726 Broadway, 7th Floor, New York, NY 10003; 212-998-6807. Inquiries may also be referred to the director of the Office of Federal Contract Compliance, U.S. Department of Labor.

New York University is a member of the Association of American Universities and is accredited by the Middle States Association of Colleges and Schools (Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104; 267-284-5000). Individual undergraduate, graduate, and professional programs and schools are accredited by the appropriate specialized accrediting agencies.

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Leonard N. Stern School of Business

THE UNDERGRADUATE COLLEGE

By the turn of the 20th century, the American business organization had grown in complexity, prompting a need for more sophisticated and scientific approaches to its study. Yet, there were few universities in the country offering business degree programs. Recognizing this, representatives from the New York State Society of Certified Public Accountants and New York University came together to start a new school—one of the first of its kind—that would offer professional training to young business people in New York City. Thus began the long tradition of business study at NYU, and in 1900 the NYU School of Commerce, Accounts, & Finance was founded with Charles Waldo Haskins as dean.

From its start, the School of Commerce led the way in formulating objective scholarly standards of academic excellence. It became a charter member of The Association to Advance Collegiate Schools of Business (AACSB) and a pioneer by awarding a Bachelor of Science degree that included a solid grounding in the liberal arts and sciences.

With the success of the undergraduate School of Commerce came demand for graduate coursework, and in 1916 NYU's Graduate School of Business Administration was established as a satellite division near Wall Street.

In the mid-1980s, the College and the graduate school received a major gift from alumnus Leonard N. Stern, chairman and chief executive officer of the Hartz Group, Inc. In recognition of Mr. Stern's generosity, the schools were unified under one name—Leonard N. Stern School of Business—and united on NYU's Washington Square campus.

Now, more than a century after the Undergraduate College's founding, the challenges facing business leaders continue to grow in scope and complexity amid unprecedented rates of technological and social change. In response, NYU Stern perseveres as an innovator and remains committed to providing a first-rate business education grounded in a liberal arts foundation. Engagement in NYU's College of Arts & Science continues to be a cornerstone of the undergraduate experi-

ence, as does a rigorous and challenging analytical approach to the study of the business enterprise. These curricular cores are complemented by global academic opportunities through Stern Around the World; personal and professional ethics exploration through four Social Impact courses; and student engagement and professional development opportunities that take full advantage of Stern's prime New York City location.

At the NYU Stern Undergraduate College, our vision is to attract the best of the best students to create:

- academically well-rounded,
- globally oriented, and
- socially minded future business leaders and policy makers.

As part of this vision, the Undergraduate College abides by a set of guiding educational principles that play an integral role in helping the School achieve its academic mission. They are to

- Achieve proficiency—by instilling professional levels of competence in the core functions of business,

- Encourage intellectualism—by inspiring intellectual curiosity, high levels of engagement, and open mindedness to new ideas and alternate points of view,

- Foster collaboration—by developing skills to thrive in groups, organizations and communities, and
- Promote a social mindset—by providing opportunities for discussion and

reflection as well as frameworks for understanding the role of business within our global society.

College Administration

Office of the Dean
Tisch Hall, Suite 600
40 West Fourth Street
212-998-0921

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Office of Academic Advising
Tisch Hall, Suite 616
40 West Fourth Street
212-998-4020

**Office of International Exchanges
and Special Programs**
Tisch Hall, Suite 616
40 West Fourth Street
212-992-6800

Office of Student Engagement
Tisch Hall, Suite 203
40 West Fourth Street
212-998-0277

Accreditation

The Undergraduate College of the
Leonard N. Stern School of Business is
accredited by the Association to
Advance Collegiate Schools of

Business (AACSB). The College is also
accredited separately by AACSB for
its accounting programs of study.



Calendar

Academic Year & Summer 2017-2019

(All dates are inclusive. Please refer to nyu.edu/registrar/calendars for updated calendar information.)

2017

Fall Classes Begin	Tuesday	September 5
Labor Day: Holiday	Monday	September 4
No Classes Scheduled	Monday	October 9
Midterm Grades Deadline	Monday	November 6
Registration for Spring 2018 Semester Begins	Monday	November 13
Thanksgiving Recess	Wednesday-Sunday	November 22- 26
Legislative Day	Tuesday	December 12 (classes meet on a Monday schedule)
Last Day of Classes	Friday	December 15
Fall Semester Final Exams	Monday-Friday	December 18-22
Winter Recess	Saturday-Sunday	December 23-January 21

2018

January Term	Tuesday-Friday	January 2-19
Martin Luther King Day: Holiday	Monday	January 15
Spring Classes Begin	Monday	January 22
Presidents' Day: Holiday	Monday	February 19
Spring Recess	Monday-Sunday	March 12-18
Midterm Grades Deadline	Friday	March 30
Registration for Fall 2018 Semester Begins	Monday	April 16
Last Day of Classes	Monday	May 7
Reading Day	Tuesday	May 8
Spring Semester Final Exams	Wednesday-Tuesday	May 9-15
Commencement	Wednesday	May 16
Memorial Day: Holiday	Monday	May 28
2018 Summer Session I	Monday-Sunday	May 21-July 1
2018 Summer Session II	Monday-Sunday	July 2-August 12
Independence Day: Holiday	Wednesday	July 4
Labor Day: Holiday	Monday	September 3
Fall Classes Begin	Tuesday	September 4
No Classes Scheduled	Monday	October 8
Legislative Day	Tuesday	October 9 (classes meet on a Monday schedule)
Midterm Grades Deadline	Monday	November 5
Registration for Spring 2019 Semester Begins	Monday	November 12

Thanksgiving Recess	Wednesday-Friday	November 21-23
Last Day of Classes	Friday	December 14
Reading Days	Saturday-Sunday	December 15-16
Fall Semester Exams	Monday-Friday	December 17-21
Winter Recess	Saturday-Sunday	December 22-January 27

2019

January Term	Monday-Friday	January 7-25
Martin Luther King Day: Holiday	Monday	January 21
Spring Classes Begin	Monday	January 28
Presidents' Day: Holiday	Monday	February 18
Spring Recess	Monday-Sunday	March 18-24
Last Day of Classes	Monday	May 13
Reading Day	Tuesday	May 14
Spring Semester Exams	Wednesday-Tuesday	May 15-21
Commencement	Wednesday	May 22
Memorial Day: Holiday	Monday	May 27
2019 Summer Session I	Tuesday-Sunday	May 28-July 7
2019 Summer Session II	Monday-Sunday	July 8-August 18
Independence Day: Holiday	Thursday	July 4
Labor Day: Holiday	Monday	September 2

Additional Important Calendar Dates:

1. For refund schedule, see Refund Period Schedule in the Tuition, Fees, & Financial Aid section on page 102.
2. For registration and drop/add schedules, consult the Stern Office of Academic Advising, Tisch Hall, Suite 616, 40 West Fourth Street; 212-998-4020.



Bachelor of Science Degree Business Program

The NYU Stern School of Business offers a Bachelor of Science degree that integrates an exceptional business education with a grounding in the liberal arts. By combining courses in business fundamentals with a broad-based liberal arts foundation, future business leaders are given the skills, expertise, and intellectual sophistication needed to advance in today's dynamic business environment. The curriculum emphasizes global perspectives, social responsibility, and professional ethics, as well as communication and interpersonal skills. Classes are taught by award-winning faculty and respected business thought leaders in New York, nationally, and abroad. Stu-

dents can also explore interdisciplinary business topics through seven academic tracks that provide coursework in areas of interest that cross traditional disciplines.

NYU Stern students take elective courses from across the University to broaden their intellectual experience. Students may also pursue a minor or a second major in the College of Arts & Science in areas ranging from psychology to the fine arts, or they can choose to minor in a subject at the Steinhardt School of Culture, Education, & Human Development or the Tisch School of the Arts. Students can also participate in one of NYU Stern's many cross-school interdisciplinary minors offered in conjunction with the College of Arts &

Science; the Steinhardt School of Culture, Education & Human Development; the Tisch School of the Arts; and the Wagner Graduate School of Public Service.

NYU Stern also offers a comprehensive variety of semester abroad programs, short-term immersion opportunities, and the one-of-a-kind International Studies Program. NYU Stern students are strongly encouraged to take advantage of the numerous global study opportunities available to them through NYU's extensive network of global academic centers, and through NYU Stern's own exchange partnerships with top business schools around the world.

An Integrated Four-Year Curriculum

The Liberal Arts Core (5 courses)

1. Mathematics:
 - Calculus I or higher
2. Expository Writing Program:
 - Writing the Essay or Commerce & Culture
 - Business & Its Publics: Discourse and Business & Its Publics: Plenary & Inquiry
3. Foundations of Contemporary Culture*:
 - Texts & Ideas
 - Cultures & Contexts
4. Foundations of Scientific Inquiry*:
 - An approved departmental course in anthropology, biology,

chemistry, environmental science, physics, or psychology, or a Physical Science or Life Science course in the College Core Curriculum of the College of Arts & Science

Business Core (10 courses)

The Business core is the curricular foundation of the Business Program at Stern. As part of this core, students are required to take the "key tools" courses that serve as the essential building blocks of any business concentration. In addition to these, students are offered a menu of six functional courses from which they must choose at least four to serve as the basis for their selected concentration(s).

Business Tools (5 courses)

- Cohort Leadership Program I
- Microeconomics
- Statistics
- Principles of Financial Accounting

**Note: Students at the Stern School of Business are required to take foundational courses in the liberal arts through the general education program of the College of Arts and Science. This group of courses is known as the College Core Curriculum and is designated as CORE-UA XXXX.*

Functional Business Core (6 courses)

Students may choose four of the following six courses; however, students are encouraged to take all six to gain a more solid foundation in business fundamentals, which can help them make better informed decisions about which Stern concentration(s) to pursue:

- Managerial Accounting
- Foundations of Finance
- Information Technology in Business & Society
- Introduction to Marketing
- Management & Organizations
- Operations Management

Social Impact Core (4 courses)

The Social Impact Core is a four-course sequence focusing on issues of personal and professional ethics; corporate social responsibility; the role of law in business and commerce; and the interconnections between corporations, markets, cultures, governments, and our global society. The four courses include:

- Business & Its Publics
- Organizational Communication & Its Social Context
- Law, Business, & Society
- Professional Responsibility & Leadership

Global Business Core (2 courses)

The NYU Stern experience is designed to broaden each student's view of the world. Given the undeniably global scope of business in the 21st century, all students are required to satisfy the two-course Global Business core. It begins in the sophomore year with the Economics of Global Business, a course combining the study of macroeconomics and international trade. In the spring term of junior year, students take the International Studies Program, a strategy-based course that teaches them how to understand the competitive positioning of a company in its industry, country, and international context. The course includes a one-week visit to a country in Asia, Europe, or Latin America to experience the culture firsthand and to meet with executives of a major corporation based in that country.

University Electives (44 units)

Additional elective coursework in liberal arts or business studies completes a student's degree requirements. Stern students are required to take at least

44 elective units, depending on their concentration of study.* The elective requirement allows students to pursue a second Stern concentration, a track at Stern, or a major at CAS. This credit can also be fulfilled with a minor in another school or a cross-school minor, or students can take a range of courses for personal enrichment. Students also commonly use their elective units while studying away.

To complete their elective requirements, students may take courses at the Stern School; the College of Arts & Science (-UA); the Steinhardt School of Culture, Education, & Human Development (-UE); the Tisch School of the Arts (-UT); the Wagner Graduate School of Public Service (-GP); the Gallatin School of Individualized Study (-UG); the Silver School of Social Work (-US); the College of Global Public Health (-GU); and the Tandon School of Engineering (-UY). A minimum of 20 of the 44 units must be taken from a non-Business area. Students do not receive credit for courses taken through the School of Professional Studies; therefore, Stern students are not permitted to enroll in courses through any SPS programs.

CONCENTRATIONS, MINORS, & TRACKS

Every Business Program student at Stern receives a primary major in Business and must select one of the business areas as a concentration. Concentrations, with requirements and courses, are described within the academic department sections of this bulletin. Students should consult with their academic adviser in the Stern Office of Academic Advising to determine exact course sequence and selection of electives. In addition to the one required Stern concentration, students may declare two other formally recognized designations: either a second Stern concentration; or a minor or major in the College of Arts & Science (which can be pursued in addition to two declared Stern concentrations); or any cross-school minor offered through NYU with the exception of minors offered through the School of Professional Studies. Other restrictions may apply. Visit nyu.edu/students/undergraduates/academic-services/undergraduate-advisement/unique-academic-opportunities/cross-school-minors for more information about these options.

A maximum of three designations are included on the formal NYU Stern record. Of the three designations permitted, only a maximum of two concentrations can be declared. However, students may also pursue a track within Stern in addition to the maximum three designations officially declared.

Stern concentration areas include:

- Accounting (CPA B.S./M.S. or General Accounting)
- Actuarial Science
- Computing & Data Science
- Economics
- Entrepreneurship (must be taken in conjunction with another concentration)
- Finance
- Global Business (must be taken in conjunction with another concentration)
- Management & Organizations
- Marketing
- Operations
- Statistics
- Sustainable Business (must be taken in conjunction with another concentration)

Majors at the College of Arts & Science (CAS)

Stern students can major in any department through CAS except economics or computer applications. Students interested in pursuing a major within CAS should meet with their academic adviser early on to ensure they can fulfill all the requirements. Consult the Stern and CAS websites for more specific information.

Tracks

Tracks were developed by a committee of Stern faculty to provide students with a roadmap of coursework to help them develop both intellectually and professionally in areas of interest that cross traditional disciplines. Tracks were designed to be multidisciplinary, in-depth, and supplemental to students' business concentration(s). Completion of a track is not noted on a student's transcript.

**Students are encouraged to work with an academic adviser and consult a curriculum worksheet to determine their specific elective requirements. Curriculum worksheets can be obtained from the Stern Office of Academic Advising or downloaded from the Stern Undergraduate College website at stern.nyu.edu/ucadvising.*

Students may choose from the following tracks:

- Asset Pricing
- Business Analytics
- Corporate Finance
- Digital Marketing
- Entrepreneurship
- Luxury Marketing
- Management Consulting
- Real Estate

Cross-School Minors

These minors offer Stern students an opportunity to broaden their academic interests beyond the traditional fields. Cross-school minors allow students to sample a variety of interrelated coursework that marry some of the most pertinent subjects from Stern and other schools at NYU. The Stern cross-school minors are:

- Advanced Mathematical Methods (with CAS)
- Business of Entertainment, Media, & Technology (with the Steinhardt School of Culture, Education, & Human Development and the Tisch School of the Arts)
- Public Policy & Management (with the Wagner Graduate School of Public Service)
- Social Entrepreneurship (with the Wagner Graduate School of Public Service)

THE LIBERAL ARTS CORE

Mathematics (4 units)

Students are required to take Calculus I (MATH-UA 121) or a higher-level mathematics course. Students with qualifying scores in certain AP and other foreign maturity exams (IB, A-Level, etc.) may apply credit to satisfy the Calculus I requirement. Refer to pages 97-99 for a full listing of these equivalences.

Calculus I

MATH-UA 121 4 units.

Prerequisite: MATH-UA 9 with a grade of C or better or equivalent; or AP Calculus AB score of 3 or better; or AP Calculus BC score of 3 or better; or SAT I Mathematics 650 or higher; or ACT/ACTE 30 or higher; or SAT II Mathematics score of 670 or higher; or passing placement examination.³

In this course, students learn derivatives, antiderivatives, and integrals of functions of one real variable; trigonometrics, inverse trigonometrics, logarithmics, and exponential functions; applications, including graphing, maximizing, and minimizing functions; and areas and volumes.

CONCENTRATION	INDICATOR	LOCATION	PAGE
Accounting	ACCT-UB	KMC ¹ 10-180	23
Computing & Data Science	INFO-UB	KMC 8-190	27
Economics	ECON-UB	KMC 7-160	30
Entrepreneurship	N/A	N/A	34
Finance	FINC-UB	KMC 9-190	36
Global Business	N/A	N/A	42
Management & Organizations	MGMT-UB	KMC 7-150	44
Marketing	MKTG-UB	Tisch ² 8th & 9th floors	47
Operations	OPMG-UB	KMC 8-160	53
Statistics & Actuarial Science	STAT-UB	KMC 8-160	55
Sustainable Business	BSPA-UB	KMC 8-190	58

¹ KMC—Henry Kaufman Management Center, 44 West 4th Street
² Tisch Hall—40 West 4th Street

Expository Writing (8 units)

Stern students are required to take two writing courses, one from the Expository Writing Program (EWP), and one through the Stern Social Impact Core. Students must complete the EWP course Writing the Essay (EXPOS-UA 1) during their first year. Students who qualify with a specific SAT Writing score may take Commerce & Culture (MULT-UB 100) in lieu of Writing the Essay. International students for whom English is a second language may be eligible to satisfy the EWP requirement by completing the two semester sequence International Writing Workshop I and II (EXPOS-UA 4 and EXPOS-UA 9). In addition, students who have taken the international writing sequence or transfer students who did not take Business & Its Publics in their first year are required to take a Business & Its Publics intensive course, SOIM-UB 3. Students in the HEOP and C-Step programs satisfy the EWP requirement by completing the two semester Liberal Studies Writing sequence (WRI-UF 1001-1002). Students placed into the Liberal Studies Writing or International Writing Workshop sequences must begin in their first semester and must register for their remaining writing course in the semester immediately following.

Writing the Essay

EXPOS-UA 1 4 units.

Required of all Stern first year and transfer students who have not completed an equivalent course at another college. No exemptions.

This is the foundational writing course in expository writing. It provides instruction and practice in critical reading, creative thinking, and clear writing. It also gives instruction in analyzing and interpreting written

texts, using written texts as evidence, developing ideas, and writing both exploratory and argumentative essays. This course stresses exploration, inquiry, reflection, analysis, revision, and collaborative learning.

Business & Its Publics: Plenary & Inquiry

SOIM-UB 1 1 unit.

This is a required course for all Stern first year students. Plenary sessions are designed to expose students to individuals who represent a distinct perspective on one of the central issues related to business and its publics while Inquiry sessions offer complementary and contrasting viewpoints by raising these issues in the context of real-life predicaments. The course introduces students to the role of the corporation, the many interconnections among business and other societal actors, and the expanded role that companies play in society. Business is viewed as a societal institution that is dependent on other societal institutions while also shaping those institutions. This raises issues about the appropriate role of businesses and actions of those within business organizations, which is used as a vehicle for developing students' critical thinking skills. This course considers the questions and challenges leaders face throughout their careers and works to develop a philosophy of business, management, and stewardship that will guide students' day-to-day decision-making for years to come.

³ For more information regarding the calculus placement examination, see the Department of Mathematics website at math.nyu.edu.

Business & Its Publics: Discourse
SOIM-UB 125 3 units.

Prerequisite: EXPOS-UA 100 or equivalent.

The Business & Its Publics Discourse class sessions follow the Plenary & Inquiry and links to the key issues and topics discussed in both. The course gives students the opportunity to engage in critical thinking and analytical reasoning through writing as well as class discussion. Students develop the ability to articulate and defend their own personal perspective about the relation between business and society by writing a series of essays, maintaining weekly journals, and participating in classroom exercises about this subject. The Discourse sequence gives students the opportunity to select issues, conduct research, evaluate and document sources, and develop clear and well-supported written arguments.

Business & Its Publics

SOIM-UB 3 2 units.

This is a required course for all Stern students who do not take SOIM-UB 1 in the spring of their first year. It provides an introduction to business and to the Social Impact Core curriculum and prepares students for the remaining three Social Impact Core courses. Students watch plenary sessions and do reading prior to in-class meetings; the in-class focus is on discussion and exercise. Key learnings include stakeholder analysis, the logic of tradeoffs and externalities, and how business leverages scale to solve social problems and create value. Students develop their critical thinking skills by considering questions concerning the appropriate role of business in society.

Commerce & Culture

MULT-UB 100 4 units.

Prerequisite: 740 or higher on SAT-I Writing or 9 or higher on ACT writing. This course explores representations of American business in literature, film, art, and architecture. These artistic texts, placed in various business milieus, act as resources for students to develop their writing and critical thinking skills. Three major writing assignments ask students to consider the role of commerce and institutions in three aspects of modern life: individual identity and destiny, expressions of culture, and as sites for social and individual transformation.

BACHELOR OF SCIENCE DEGREE PROGRAMS¹

Program	HEGIS Code ²
Accounting-Dual Degree Program	0502
Business	0501
Business & Political Economy	2204

¹ Registered by the New York State Education Department, Office of Higher Education, nysed.gov, 518- 474-3852

² Higher Education General Information Survey

International Writing Workshop I
EXPOS-UA 4 4 units.

Prerequisite: Expository Writing Program permission.

The first of two courses required for students for whom English is a second language. The Expository Writing requirement for NYU undergraduates is fulfilled with this course and International Writing Workshop II.

This course provides instruction in critical reading, textual analysis, exploration of experience, development of ideas, and revision. It stresses the importance of inquiry and reflection in the use of texts and experience as evidence for essays. Reading and writing assignments lead to essays in which students analyze, raise questions about, and reflect on written texts, experiences, and ideas in a collaborative learning environment. The class discusses appropriate conventions in English grammar and style as part of instructor feedback.

International Writing Workshop II
EXPOS-UA 9 4 units.

Prerequisite: EXPOS-UA 4.

The second of two courses required for students for whom English is a second language. The Expository Writing requirement for NYU undergraduates is fulfilled with this course and International Writing Workshop I.

This course provides advanced instruction in analyzing and interpreting written texts from a variety of academic disciplines, the use of written texts as evidence, the development of ideas, and the writing of argumentative essays through a process of inquiry and reflection. It stresses analysis, revision, inquiry, and collaborative learning. The class discusses appropriate conventions in English grammar and style as part of instructor feedback.

Writing I, II

WRI-UF 1001, 1002 4 units per term. Completion of WRI-UG 1001 and WRI-UF 1002 satisfies the Expository Writing requirement for students in the HEOP or C-Step program.

This course develops analytical thinking abilities in the context of academic essay writing by engaging

students in the use of writing to express, explore, and develop ideas through a variety of forms, including informal writing (such as free writing and journal writing). Students produce a wide range of writing, both in and out of class, which forms the basis for classroom activities. All papers go through multiple drafts, often with input from peers in addition to the instructor. In Writing II, students develop their skills in analysis and argumentation by exploring ways in which the ideas of others can be incorporated into their own writing. Students read and discuss longer, more challenging texts, and are expected to incorporate a broad range of primary and secondary sources to develop and support their increasingly complex ideas, as well as become familiar with a wide variety of possible resources at the library and learn the mechanics and conventions of the academic research essay.

Foundations of Contemporary Culture (8 units)

Students are required to take two courses: Texts & Ideas CORE-UA 04XX and either Cultures & Contexts CORE-UA 05XX* or Global Cultures XXGC-UF (through the NYU Liberal Studies Program).

Texts & Ideas

CORE-UA 04XX 4 units.

Texts & Ideas introduces students to the ideals of liberal education and the central role of humanistic study in the liberal arts, while fostering appreciation of the importance of humanistic learning for society at large. Students become acquainted with some of the literary and philosophical works that have been most influential in shaping the contemporary world

**Students may fulfill this requirement with select pre-approved courses from various NYU study-away sites. Students should refer to the Undergraduate Current Students Academics website at stern.nyu.edu/portal-partners/current-students/undergraduate/academics/degree-programs/business-program for the most current list of approved courses.*

and with significant instances in which the ideas in these works have been debated, developed, appropriated, or rejected. This course is not a survey, but rather an examination of how texts influence subsequent thinking, create traditions, and reflect societal ideals. Texts & Ideas thus aims to provide a richer understanding of how cultures are constructed, modified, and represented.

Cultures & Contexts

CORE-UA 05XX 4 units.

Cultures & Contexts prepares students for life in a globalized world by introducing them to the ways in which humans come to understand themselves as members of social, religious, national, and regional collectives and by fostering their appreciation of the dynamics of cultural interaction and influence. Individual sections focus on specific social or cultural groups different from the dominant traditions of contemporary North America. Each examines different ways cultures have interacted through trade, colonization, immigration, religious dispersion, and media representation; how such groups define themselves against internal and external difference; and how the dominant perspective of Western modernity affects comprehension of how people outside that position understand, experience, and imagine their lives. Offerings include emergent traditions, diaspora formations, and societies understood as nationally, geographically, or culturally distinct from the dominant traditions of contemporary North America. Courses focusing on ancient civilizations are also included, as are courses that address contemporary challenges to traditional European conceptions of national identity.

Global Cultures

XXGC-UF 4 units.

Students may choose from one of five Global Cultures courses, each designed to help them understand that societies have long histories and enormous diversity within themselves as societies and cultures intersect across the globe. These courses introduce students to aspects of one particular region's cultural development, broadly defined as including, but not limited to, such disciplines as history, philosophy, the arts, politics, and social institutions.

Foundations of Scientific Inquiry (4 units)¹

Students choose one approved course, with or without laboratory, in anthropology, biology, chemistry, environ-

mental science, physics, or psychology, or a course chosen from the College Core Physical Science or Life Science offerings. The requirement can also be satisfied by appropriate Advanced Placement credit (for information on AP credit, refer to the chart on page 97 in the Admissions section). Full course descriptions for all classes can be found at cas.nyu.edu.

Department of Anthropology:

Select ANTH-UA courses*

Approved effective fall 2017:

ANTH-UA 2, 50-59, 80, 90, 240, 326, 511, 512

Any Biological Anthropology course listed under "Course Offerings" on the Department of Anthropology's website at as.nyu.edu/anthropology/undergraduate/course-offerings

Department of Biology:

Any Biology course (BIOL-UA)

Department of Chemistry:

Any Chemistry course (CHEM-UA)

Program in Environmental Studies:

Select ENVST-UA courses*

Approved effective spring 2017:

ENVST-UA 100, 210, 226, 254, 275/9275, 360

(Not approved: ENVST-UA 101 or ENVST-UA 4XX/5XX)

All other ENVST courses may be reviewed on a case-by-case basis.

Department of Physics:

Any Physics course (PHYS-UA)

Department of Psychology:

Cognitive Neuroscience

PSYCH-UA 25 4 units.

The College Core Curriculum:

Physical Science

CORE-UA 02XX 4 units. *Lecture and laboratory.*

Life Science

CORE-UA 03XX 4 units. *Lecture and laboratory.*

*Approved courses may change each semester. Please consult with an academic adviser for an updated approved list.

BUSINESS CORE

Business Tools (5 courses)

Principles of Financial Accounting
ACCT-UB 1 4 units.

Full course description can be found in the Department of Accounting section (page 23).

Microeconomics

ECON-UB 1 4 units. *Students may not apply advanced standing credit (AP, A-Levels, International Baccalaureate, etc.) to waive out of this requirement.*

Prerequisite: MATH-UB 121 or equivalent (AP Calculus AB/BC scores of 4 or 5).

Full course description can be found in the Department of Economics section (page 30).

Cohort Leadership Program I

MULT-UB 9 0 units. *Graded pass/fail. Required for all first year students.*

Full course description can be found in the Multidisciplinary Courses section (page 62).

Statistics for Business Control and Regression & Forecasting Models

STAT-UB 103 6 units.

This course combines both Statistics for Business Control (4 units) and Regression & Forecasting Models (2 units) into a single 6-unit course. This 6-unit course is recommended. Full course description can be found in the Department of Statistics section (page 55).

Or

Statistics for Business Control

STAT-UB 1 4 units.

Full course description can be found in the Department of Statistics section (page 55).

And

Regression & Forecasting Models

STAT-UB 3 2 units.

Prerequisite: STAT-UB 1 or equivalent. Required for students who have passed the statistics proficiency examination.

Full course description can be found in the Department of Statistics section (page 55).

Functional Business Core (6 courses—students must choose at least 4)

Managerial Accounting

ACCT-UB 4 4 units.

Full course description can be found in the Department of Accounting section (page 23).

Foundations of Finance

FINC-UB 2 4 units.

Full course description can be found in the Department of Finance section (page 36).

¹Students interested in pursuing a prehealth curriculum are encouraged to refer to page 105 for proper sequencing of Natural Science coursework.

Information Technology in Business & Society

INFO-UB 1 4 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Management & Organizations

MGMT-UB 1 4 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Introduction to Marketing

MKTG-UB 1 4 units.

Full course description can be found in the Department of Marketing section (page 47).

Operations Management

OPMG-UB 1 4 units.

Full course description can be found in the Department of Operations section (page 53).

SOCIAL IMPACT CORE

Business & Its Publics: Plenary & Inquiry

SOIM-UB 1 1 unit.

Full course description can be found in the Expository Writing section (page 14).

Business & Its Publics: Discourse

SOIM-UB 125 3 units.

Full course description can be found in the Expository Writing section (page 14).

Business & Its Publics

SOIM-UB 3 2 units.

Full course description can be found in the Expository Writing section (page 14).

Organizational Communication & Its Social Context

SOIM-UB 65 4 units.

Prerequisite: SOIM-UB 125, SOIM-UB 1 or SOIM-UB 3, and sophomore standing.

Students learn how organizations communicate with multiple types of audiences, focusing on the interconnections between business and society. The course uses the stakeholder model of the corporation to introduce the strategic implications of communication for modern organizations. Students focus on strategic and tactical aspects of corporate communica-

tion to study and practice the ways in which organizations communicate to their varied internal and external stakeholders. Assignments help develop students' abilities in speaking and writing to these varied audiences, both to inform and persuade. The course emphasizes bridging theoretical fundamentals while stressing action learning, which includes applying communication strategy to:

- oral and written business assignments,
- presentation delivery techniques,
- visual communication analysis and practice, and
- team communication.

For specific questions or concerns regarding this course, visit the Department of Management Communications website at stern.nyu.edu/experience-stern/about/departments-centers-initiatives/academic-departments/management-communication.

Law, Business, & Society

SOIM-UB 6 4 units.

Prerequisite: Junior standing.

This course builds on prior coursework within the Social Impact Core curriculum by challenging students to think about legal systems and appreciate how they have evolved and continue to evolve in relation to business and society. The interaction between law and business is multidimensional and involves social, political, ethical, and technological considerations. Students examine how key areas of business law influence the structure of domestic and international business relationships, while honing their analytical, communication, conflict resolution, and team problem-solving skills. Students learn how businesses play an active role in shaping the very laws that govern them through lobbying, public relations, and the media.

Professional Responsibility & Leadership

SOIM-UB 12 2 units.

Prerequisite: SOIM-UB 6 and senior standing.

Professional Responsibility & Leadership is an interdisciplinary capstone course that builds on prior coursework within the Social Impact Core curriculum as well as other coursework both within Stern and

other NYU colleges. In this discussion seminar, students analyze the variety of ethical dilemmas that can arise in the course of business practice, frame these dilemmas in reference to the different values and principles that can inform decisions and guide action in such ambiguous situations, and gain experience making decisions and defending courses of action that are coherent with their own values.

**GLOBAL BUSINESS CORE
(2 COURSES)**

Economics of Global Business

ECON-UB 11 4 units.

Full course description can be found in the Department of Economics section (page 30).

International Studies Program

MULT-UB 11 4 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

B.S. in Business Learning Goals

The NYU Stern faculty developed and approved the following four guiding educational principles in 2005 as the foundational goals for the Bachelor of Science in Business degree program at NYU Stern. These goals describe the knowledge, skills, and values the School expects students to have attained upon completion of their undergraduate program study.

I. Achieve proficiency: Students will achieve professional levels of competence in core functions of business, including oral and written communication.

II. Intellectualism: Students will exhibit intellectual curiosity, high levels of intellectual engagement, and open-mindedness to new ideas and alternative points of view.

III. Collaboration: Students will develop the skills needed to thrive in groups, organizations, and communities.

IV. Social impact: Students will achieve an understanding of the role of business within our global society.



Bachelor of Science in Business & Political Economy

Stern's Bachelor of Science degree program in Business & Political Economy (BPE) is designed to prepare students for today's increasingly complex global business environment by focusing on the intersection of markets, governments, laws, and cultures. The program features a groundbreaking curriculum that combines coursework in business, politics, and economics. To foster a unique global perspective, the BPE program includes consecutive semesters of global study at NYU's campuses in London and Shanghai. Students may also choose to spend a semester at NYU's center in Washington, D.C. or another NYU-affiliated global site.

Reflecting the interconnections found in today's globalized world, the BPE degree seamlessly merges liberal arts, social impact learning, and co-curricular experiences. The well-rounded BPE experience

prepares students for the broadest array of careers – be it in multinational corporations, government, nonprofit organizations, and more. The curriculum allows students to explore interdisciplinary business topics through Stern's academic tracks which provide coursework in areas that cross traditional business disciplines. Stern students take elective courses across the University to broaden their intellectual experience.

Students may also pursue a minor or a second major in the College of Arts & Science in areas ranging from psychology to the fine arts, or they can choose to minor at the Steinhardt School of Culture, Education, & Human Development, the Tisch School of the Arts, the Tandon School of Engineering, or the Silver School of Social Work. Students can also participate in one of Stern's cross-school interdisciplinary minors

offered in conjunction with the College of Arts & Science; the Steinhardt School of Culture, Education, & Human Development; the Tisch School of the Arts; and the Wagner Graduate School of Public Service.

Prospective students must apply directly to the BPE program when applying for first year admission to NYU Stern. It is possible for a Stern BS in Business first year student to transfer into the BPE degree program at the end of their first semester; however, transfer admission is competitive and not guaranteed. For more information, visit stern.nyu.edu/portal-partners/current-students/undergraduate/academics/degree-programs/business-political-economy-program.

Requirements listed here may differ slightly by BPE class year. BPE students should meet with their academic adviser to discuss their specific course of study.

The Liberal Arts Core (4 courses)

The cornerstone of the Stern curriculum is a solid grounding in the liberal arts and sciences. For students in the BPE program, the Liberal Arts Core includes four courses designed to hone critical quantitative skills, promote creative and logical thinking, and heighten cultural awareness, focusing on the regions in which students study abroad. The Liberal Arts Core includes courses in calculus, sta-

tistics, non-U.S. history, culture, fashion, and natural science, and more. Courses include:

- Calculus I (or higher level mathematics course)
- Statistics
- Area Studies course (typically taken in London or Shanghai)
- An approved Natural Science course in anthropology, biology, chemistry, environmental studies, physics, psychology, or Physical Science or Life Science

in the College Core Curriculum of the College of Arts & Science

Language Requirement

Students must complete a language requirement through the Intermediate II level of a language at NYU. Certain advanced standing exams or NYU proficiency exams may exempt a student from this requirement. This should be determined in conjunction with an academic adviser.

Business Core (4 courses)

The Business Core provides an introduction to the key business disciplines of accounting, finance, and marketing, as well as an introduction to global business. After completing these business fundamentals, students choose additional business courses to complete the BPE Stern elective requirements. The required courses are:

- Principles of Financial Accounting
- Foundations of Finance
- Introduction to Marketing
- Cohort Leadership Program I
(Full course description can be found in the Multidisciplinary Courses section on page 62).

As an additional course, students may choose to participate in the International Studies Program, which would count toward a student's non-Stern elective space.

Politics Core (4 courses)

The Politics Core introduces students to the study of politics through coursework covering political theory, comparative politics, international relations, and political economy. Classes stress the challenges of globalization as well as focus on how politics, economics, and business interact at the international level. Courses include:

- Introduction to Economic & Political Thought
- World Politics (taken in London)
- Political Economy of East Asia (taken in Shanghai)
- Business & Government

Economics Core (4 courses)

The Economics Core exposes students to the major concepts, tools, and debates of economics today, with a strong focus on global economic linkages and trends. Courses include:

- Microeconomics
- Introduction to Macroeconomics
- International Economics
- Economics elective

Social Impact Core (3 courses)

The Social Impact Core is a sequence of courses focusing on issues of personal and professional ethics; corporate social responsibility; the role of law in business and commerce; and the interconnections between corporations, markets, cultures, governments, and our global society. Coursework emphasizes writing,

debate, and discussion. Courses include:

- Business & Its Publics
- Organizational Communication & Its Social Context
- Law, Business, & Society
- Professional Responsibility & Leadership

Capstone (1 course)

The BPE Senior Seminar is a capstone experience that draws on all the business, politics, and economics coursework students have taken throughout their four years at Stern.

University Electives (44 units)

Electives are courses used to complete a minor, fulfill the foreign language proficiency, delve deeper into an area of business, or sample an array of intellectual perspectives. It is recommended that two courses have an international focus (not including foreign language courses or courses required by a study abroad site). Students are required to take certain coursework toward their elective area as part of the study away experience. For example, at a study away site, there may be site-specific required courses such as language courses.

At least 12 units of electives must be from Stern's business classes. These may be distributed broadly or could be used toward a track (see the Tracks section in the next column). To complete elective requirements, students take courses in the College of Arts & Science (-UA); the Steinhardt School of Culture, Education, & Human Development (-UE); the Tisch School of the Arts (-UT); the Wagner Graduate School of Public Service (-GP); the Silver School of Social Work (-US); the Tandon School of Engineering (-UY); the Gallatin School of Individualized Study (-UG); and the College of Global Public Health (-GU). Students do not receive credit for courses taken through the School of Professional Studies; therefore, Stern students are not permitted to enroll in courses through any SPS programs.

A Second Major in the College of Arts & Science (CAS)

It may be possible for a student to complete a second major through CAS except economics or politics. Students interested in pursuing a major within CAS should meet with their academic adviser early on in their academic careers to ensure they can fulfill all the requirements.

Consult the Stern and CAS websites for more specific information.

Tracks

Tracks were developed by a committee of Stern faculty to provide students with a roadmap of coursework to help them develop both intellectually and professionally in areas of interest that cross traditional disciplines. With careful planning, a BPE student may pursue a track. More information on tracks can be found in the Tracks section (page 72).

Cross-School Minors

These minors offer Stern students an opportunity to broaden their academic interests beyond the traditional fields. Cross-school minors allow students to sample a variety of interrelated coursework that marry some of the most pertinent subjects from Stern and other schools at NYU. The Stern cross-school minors are:

- Advanced Mathematical Methods (with CAS)
- Business of Entertainment, Media, & Technology (with the Steinhardt School of Culture, Education, & Human Development and the Tisch School of the Arts)
- Public Policy & Management (with the Wagner Graduate School of Public Service)
- Social Entrepreneurship (with the Wagner Graduate School of Public Service)

Minors through Other NYU Schools

Students may pursue any cross-school minor offered through NYU with the exception of minors offered through the School of Professional Studies. Other restrictions may apply. Visit nyu.edu/students/undergraduates/academic-services/undergraduate-advisement/unique-academic-opportunities/cross-school-minors for more information on these options.

Concentrations

BPE students have three designations included in their major: business, politics, and economics. BPE students are unable to pursue business concentrations (examples: finance, accounting, marketing, management, computing & data science, etc.), but can still take the same coursework as BS in Business students who may be pursuing concentrations.

Course Descriptions

THE LIBERAL ARTS CORE

Mathematics (4 units)

Students are required to take Calculus I (MATH-UA 121) or a higher-level mathematics course. Students with qualifying scores in certain AP and other foreign maturity exams (IB, A-Level, etc.) may apply credit to satisfy the Calculus I requirement. Refer to pages 97-99 for a full listing of these equivalences.

Calculus I

MATH-UA 121 4 units.

Full course description can be found on page 14.

Statistics (6 units)

Statistics for Business Control & Regression & Forecasting Models STAT-UB 103 6 units.

This course combines both Statistics for Business Control (4 units) and Regression & Forecasting Models (2 units) into a single 6-unit course. This 6-unit course is recommended. Full course description can be found in the Department of Statistics section (page 55).

Or the following two classes in two consecutive semesters:

Statistics for Business Control STAT-UB 1 4 units.

Full course description can be found in the Department of Statistics section (page 55).

and

Regression & Forecasting Models STAT-UB 3 2 units.

Full course description can be found in the Department of Statistics section (page 55).

Area Studies Elective (4 units)

Students are encouraged to learn more about the culture, history, and politics of the countries and regions they visit while abroad. They choose a course that focuses on one or more of these areas. Some examples of acceptable courses offered in the past include:

- Architecture in London: Field Study
- Writing London
- Understanding the EU
- Politics of the Near & Middle East
- History of Modern China since 1840

- Global Media Seminar: Media in China
- Topics in Environmental Values & Society: Chinese Environmental Governance

Natural Science Course (4 units)

Full information regarding this requirement can be found in the Foundations of Scientific Inquiry section on page 16.

BUSINESS CORE

Principles of Financial Accounting ACCT-UB 1 4 units.

Full course description can be found in the Department of Accounting section (page 23).

Foundations of Finance

FINC-UB 2 4 units.

Full course description can be found in the Department of Finance section (page 36).

Introduction to Marketing

MKTG-UB 1 4 units.

Full course description can be found in the Department of Marketing section (page 47).

Cohort Leadership Program I

MULT-UB 9 0 units. First year fall.

Full course description can be found in the Multidisciplinary Courses section (page 62).

POLITICS CORE

Introduction to Economic & Political Thought

BPEP-UB 1 4 units. First year fall.

This course explores political theory with an emphasis on modern theory and issues of political economy. The course has three main objectives. First, students are introduced to different theories of politics. Second, the course has a major writing component and is designed to improve students' writing abilities. Third, the course challenges students intellectually and asks them to analyze and debate ethical and moral issues created by different economic and political choices.

World Politics

BPEP-UB 9010 4 units. Sophomore fall.

This course introduces the central concepts and methods for studying international politics, comparative politics, and international relations. It discusses how incentives, political institutions, and domestic politics shape interac-

tions in the international arena, and gives students analytical tools as a means to evaluate political perspectives based on logic and evidence.

Political Economy of East Asia

BPEP-SHU 9042 4 units. Sophomore spring.

This course uses theories of trade, political economy, collective action, and sectoral analysis to examine the political economy of East Asia, specifically China. The three primary objectives are to (1) understand the historical trajectory of China's development path; (2) consider in what ways and to what degree the growth experiences of East Asia's high-performing economies helped inform China's economic policymakers' decisions and shed light on the prospects for the long-term success of reforms in China; and (3) assess the state of China's contemporary political economy and the government's current role in generating or inhibiting economic activity.

Business & Government

BPEP-UB 5 4 units. Junior fall.

This course examines the institutional and intellectual domain that defines the relationships between business and government. The relationships are extensive, in many instances necessary, and often controversial. Topics of interest include areas where government - as a matter of public interest - exerts its influence over business through regulations as well as areas where business enters the political fray to influence government activity. The goal is to help students appreciate that though the particulars of the relationship differ across countries and times, the relationship itself plays a definitive role in shaping the practice of business and the nature of society. The course has two parts: (1) a conceptual framework (e.g. decision-making in democracy, market failure, public goods, and rent seeking) and (2) applications (e.g. the role of regulatory agencies, antitrust, industrial and competition policy, and business lobbying).

Economics Core

Microeconomics

ECON-UB 1 4 units. First year.

Full course description can be found in the Department of Economics section (page 30).

Introduction to Macroeconomics

BPEP-UB 2 4 units. First year spring.

This course focuses on the economy as

a whole (the “macroeconomy”), starting with the meaning and measurement of important macroeconomic data (such as unemployment, inflation, and output) and moving on to the basic theory of production and the behavior of the overall economy. Topics include long-run economic growth and the standard of living; the causes and consequences of economic booms and recessions; the role of the financial sector, the banking system, and the central bank (the Federal Reserve in the U.S.); and the government debt and sovereign insolvency. The course examines the role of government monetary and fiscal policies in the U.S. and around the world.

International Economics

ECON-UA 9238 4 units. Sophomore fall.

Prerequisites: ECON-UB 1 and BPEP-UB 2.

This course starts with the theory of international trade in goods, services, labor, and capital. Issues discussed include gains from trade and their effect on income distribution; analysis of protectionism and trade barriers; strategic trade theories; and efforts to liberalize trade relations among countries. The course then turns to international macroeconomics and covers topics such as trade balances, capital flows, and the determinations of exchange rates. Other topics include foreign exchange markets, exchange rate regimes, and currency unions. International economic policy and institutions are discussed.

Economics Elective

Students build on the previous economics courses by selecting an upper-division economics course of their choice. See the Department of

Economics section on page 30 for detailed information about available economics courses within Stern and CAS.

SOCIAL IMPACT CORE

Business & Its Publics: Plenary & Inquiry

SOIM-UB 1 1 unit. First year spring.

Full course description can be found on page 14.

Business & Its Publics: Discourse

SOIM-UB 125 3 units. First year spring.

Full course description can be found on page 15.

Organizational Communication & Its Social Context

SOIM-UB 65 4 units. Sophomore year.

Full course description can be found on page 17.

Law, Business, & Society

SOIM-UB 6 4 units. Junior year.

Full course description can be found on page 17.

Professional Responsibility & Leadership

SOIM-UB 12 2 units. Senior fall.

Full course description can be found on page 17.

CAPSTONE

BPE Senior Seminar

BPEP-UB 8 4 units.

The seminar focuses on the major economic, business, and political challenges facing the world today. The focal point of the course is an original research paper on any topic related to the BPE curriculum. Students work with the faculty to choose a topic, develop a hypothesis, and conceive a

research approach. Draft papers are reviewed and students make presentations to the class. The paper is a challenging project that prepares students for their future careers as leaders in business and government.

BS in Business & Political Economy Learning Goals

The NYU Stern faculty developed and approved the following four guiding educational principles in 2013 as the foundational goals for the Bachelor of Science in Business & Political Economy degree program at NYU Stern. These goals describe the knowledge, skills, and values the School expects BPE students to have attained upon completion of their undergraduate program of study.

I. Achieve proficiency: Students will achieve professional levels of competence in core functions of business, including written communication skills, and understanding of the principle theories of international politics and economics.

II. Intellectualism: Students will exhibit intellectual curiosity, high levels of intellectual engagement, and open-mindedness to new ideas and alternative points of view.

III. Global experiences: Students will demonstrate their understanding of different cultural and political environments around the world and their ability to work professionally in a cross cultural environment.

IV. Social impact: Students will achieve understanding of the role of business within our global society



Stern Bachelor of Science (BS) in Business—Tisch Bachelor of Fine Arts (BFA) in Film & Television Dual-Degree Program

The Stern-Tisch BS/BFA is designed for students with a passion for film and television, and an interest in the business aspects of these industries. Bringing together two world-class NYU schools and all the resources they provide, the program offers students the opportunity to combine full degrees in both film and television and business. Students gain business and creative skills comparable to those who are enrolled in either program individually. Graduates are uniquely prepared to pursue entrepreneurial creative endeavors or embark on careers in the film and television industry.

The dual degree takes approximately five years (10

semesters) to complete all requirements. It is open to first year students and sophomores currently enrolled in either the BS in Business program at Stern or the Kanbar Department of Undergraduate Film & Television at Tisch. Interested and eligible students apply as dual-degree transfer students in the early part of the spring semester. Tisch applicants must clearly demonstrate in their application a capacity for success in the Stern curriculum as well as a strong interest in the field of business. Stern applicants must show their interest in the area of film and television through the submission of a creative portfolio. The program is highly selective and only a handful of students are admit-

ted each year to the program.

Students in the program complete the full curricular requirements of both the BS degree with a major in business as well as the full BFA degree in the Film & Television program at Tisch.

For a full listing of course requirements for both programs as well as full eligibility criteria and specific application information, students are encouraged to visit the website at stern.nyu.edu/portal-partners/current-students/undergraduate/academics/degree-programs/stern-tisch-bs-bfa. Students interested in learning more are welcome to meet with the specified program advisers and faculty listed on the site.



Accounting (ACCT-UB)

Programs of Study

GENERAL ACCOUNTING CONCENTRATION REQUIREMENTS (12 UNITS)

Financial Statement Analysis ACCT-UB 3

Plus three accounting electives.

Students pursuing the general Accounting concentration should consult with an adviser in the Stern Office of Academic Advising by the end of their sophomore year to ensure that course distribution requirements are being met and to formally declare the general Accounting concentration. The Department of Accounting faculty adviser is available to advise on general Accounting course selection or other matters general accounting students may wish to discuss.

General Accounting Concentration Elective Options

Accounting & Analysis in Practice ACCT-UB 12

Financial Reporting & Disclosure ACCT-UB 21

Business Acquisitions, Deferred Taxes, Translations, & Derivatives ACCT-UB 22

Financial Modeling & Analysis ACCT-UB 23

Advanced Financial Statement Analysis ACCT-UB 30

Taxation of Individuals ACCT-UB 63

BACHELOR OF SCIENCE-MASTER IN ACCOUNTING DUAL-DEGREE PROGRAM REQUIREMENTS (37 UNITS)

Financial Statement Analysis ACCT-UB 3

Any Advanced Finance Course FINC-UB XX

For course listings, see the Department of Finance section (page 36).

Financial Statement Modeling ACCT-GB 6300

Internal Controls & Accounting Information Systems ACCT-GB 6415

Financial Reporting & Analysis ACCT-GB 6302

Auditing ACCT-GB 6313

Accounting for Financial Instruments ACCT-GB 6317

Advanced Accounting Concepts ACCT-GB 6326

Advanced Managerial Accounting ACCT-GB 6331

Taxation of Individuals & Business Income ACCT-GB 6380

Topics in Advanced Communication in Accounting MCOM-GB 6205

Judgment & Decision-Making MGMT-GB 6251

Collaboration, Conflict, & Negotiation MGMT-GB 6259

A student must complete 150 credit hours to become a certified public accountant (CPA) in New York State. The full 150 required units are earned through the completion of both the Stern Bachelor of Science degree and a specially designed Master of Science degree in Certified Public Accounting at the Graduate School of the Stern School of Business. Additional policies and academic standards regarding the dual degree program can be found in the Academic Advising & Policies section on page 112.

Certified Public Accounting Dual-Degree Program students who wish to apply for admission to the CPA examination in New York State must present evidence of successful completion of a course of study in a college or school of accountancy registered by the New York State Education Department. The New York University Certified Public Accounting Dual-Degree Program is so registered (HEGIS code 0502/0502). Interested students should contact the New York State Education Department (nysed.gov) and request *Handbook 14*.

Students admitted to the B.S.-M.S. in Accounting Dual-Degree Program should consult with an adviser in the Stern Office of Academic Advising regularly to ensure that course distribution requirements are being met. The Department of Accounting undergraduate faculty adviser is available to advise on CPA dual-degree course selection or other matters dual-degree students may wish to discuss.

Courses

CORE COURSES

Principles of Financial Accounting ACCT-UB 1 4 units. Fall and spring. *Prerequisite:* One semester of coursework at NYU.

This course is designed to teach students the accounting skills public companies use to measure and communicate their financial results. The focus is on understanding the

accrual-based accounting rules and processes used to record business transactions and create financial accounting statements under the US Generally Accepted Accounting Principles. Emphasis is placed on analyzing and interpreting financial accounting statements so students develop the ability to evaluate the current condition of a business.

Managerial Accounting ACCT-UB 4 4 units. Fall and spring. *Prerequisites:* ACCT-UB 1 and sophomore standing.

This course explores the use of accounting information for internal planning, analysis, and decision-making with a focus on information generated by internal accounting systems. The main objective of the course is to equip students with the

knowledge to prepare, understand, evaluate, and act upon the many financial and non-financial reports used in managing modern firms. This information is a key input into a wide range of analytical tools to support decisions: analyzing profitability of various products, managing product-line portfolios, setting prices, measuring and managing profitability of customers, making operational and strategic decisions, evaluating investments and investigating efficiency.

ADVANCED COURSES

Financial Statement Analysis

ACCT-UB 3 3 units. Fall and spring.

Prerequisites: ACCT-UB 1 and sophomore standing.

The objective of this course is to understand how to read, interpret, and analyze financial statements. Throughout the course, students use the financial statements of several real companies to illustrate concepts. The course is divided into three segments: (1) Students develop the tools to analyze financial statements. They study the interrelationships between financial statement line items and use ratio analysis to understand and compare firms. (2) Students learn how to understand and analyze accounting disclosures and use accounting disclosures to adjust financial ratios. (3) Students use the analytical tools developed in conjunction with various information sources to forecast future earnings and value a firm using these forecasts.

Accounting & Analysis in Practice

ACCT-UB 12 3 units.

This course explains how managers communicate their strategy and financial performance via financial statements, and how these financial statements are then used by corporate and investment bankers as well as buy-side and sell-side financial analysts who advise investors. A good understanding of the practical aspects of how financial statements are used is crucial to a successful career. These practical aspects are best communicated through a mix of traditional cases and discussions with industry professionals. Stern's NYC location provides unparalleled access to such professionals and this course offers a unique opportunity to interact with many of them.

Financial Reporting & Disclosure

ACCT-UB 21 3 units.

Prerequisites: ACCT-UB 3 and sophomore standing.

This course is part of a sequence ideal for students who wish to pursue careers in investment banking,

investment management, consulting, and public accounting. In addition to being a required course for students concentrating in accounting, it is highly recommended for those concentrating in finance, economics, marketing, and information systems. The course complements Financial Statement Analysis (ACCT-UB 3) by providing a more extensive analysis of financial statements and their underlying financial reporting rules. It uses tools learned in Financial Statement Analysis, such as ratio and accounting analysis, to discuss financial reporting principles, emphasizing the link between reporting principles and financial statements. Students learn how management uses financial reporting decisions to influence reported income and asset and liability values, and they gain the tools necessary to analyze the impact of alternative reporting decisions on financial statements.

Business Acquisitions, Deferred Taxes, Translations, & Derivatives

ACCT-UB 22 3 units.

Prerequisites: ACCT-UB 3 and junior standing.

Not applicable to B.S.-M.S. Program.

Cross-listed with B10.3330.

This course focuses on major issues in financial reporting including: accounting for mergers and acquisitions, preparation of consolidated financial statements, related tax issues, translation of foreign currency financial statements, foreign currency transactions, and accounting for derivatives including their use in hedging transactions. *This course is recommended for both accounting and finance majors.*

Financial Modeling & Analysis

ACCT-UB 23 3 units.

Not applicable to B.S.-M.S. Program.

Making educated decisions today by forecasting operating and financial performance is a critical exercise for owners, managers, consultants, investment bankers, creditors, equity and credit analysts, and investors such as private equity groups, hedge funds, institutional investors, and individuals. The goal of this course is to instruct step-by-step how to build a comprehensive, multi-purpose projection model in Excel and subsequently interpret selective operating, credit, and equity valuation data. Based on this information, students learn how to (1) evaluate a company's operating and financial performance, (2) develop an appropriate capital structure by structuring debt and equity transactions which not only protect both the creditors and share-

holders, but also create an appropriate risk and reward equilibrium, and (3) formulate an educated investment opinion and propitiously time entry and exit trading points.

Advanced Financial Statement Analysis

ACCT-UB 30 3 units.

Prerequisites: ACCT-UB 3.

Not applicable to B.S.-M.S. Program.

This course synthesizes financial statement analysis, corporate finance, and the valuation of stocks (i.e., investments). This course is all about gaining the knowledge of how accounting metrics are mapped into stock prices. There are two parts to the course. The first part is an intensive and solid review of the core knowledge in the three underlying areas, including the concepts of discount factors, alternative measures of income in accounting practice, concepts like enterprise cash flows and residual earnings, and the centrality of forward P/Es in equity valuation. The first part of the course concludes with tools that enable students to infer future accounting metrics they need to see from equity investments based on what they're paying. In the second part of the course, they apply the knowledge acquired in the first part to make buy/sell/hold decisions on equity investments involving listed companies.

Forensic Accounting & Financial Statement Fraud

ACCT-UB 33 3 units.

Prerequisites: ACCT-UB 3.

Not applicable to B.S.-M.S. Program.

The objective of this course is to impart a detailed understanding of forensic accounting with particular emphasis on the methods to detect financial statement fraud. It is designed to demonstrate the various aspects of fraud, i.e., fraudulent financial reporting; identifying fraud schemes, including computer fraud and methods of concealment; as well as the analytical techniques in uncovering fraud and its prevention through effective internal control systems. It also includes an analysis of the general techniques used in working in litigation support services. It is of particular interest to accounting and finance professionals. The course content has also become of critical interest to regulators and lawmakers because of the notoriety of a series of recent financial scandals that have affected the entire business community. It reviews the new institutional structures that have recently been put in place by lawmakers and

the accounting profession to deal with fraud and its prevention, i.e., the Sarbanes-Oxley Act and self-regulating measures adopted by the accounting profession.

Taxation of Individuals

ACCT-UB 63 3 units.

Prerequisites: ACCT-UB 1 and junior standing.

Not applicable to B.S.-M.S. Program.

This course is part of a sequence ideal for students who wish to pursue careers in investment banking, investment management, and consulting, and who have a strong interest in accounting. It provides a cursory understanding of taxation for individuals, corporations, and partnerships and is highly recommended for those majoring in finance, economics, marketing, and information systems.

Financial Statement Modeling

ACCT-GB 6300 3 units.

Prerequisite: ACCT-UB 3.

Not open to students who have completed ACCT-UB 23.

Making educated decisions today by forecasting operating and financial performance is a critical exercise for owners, managers, consultants, investment bankers, creditors, equity and credit analysts, and investors such as private equity groups, hedge funds, institutional investors, and individuals. The goal of this course is to instruct step-by-step how to build a comprehensive multi-purpose projection model in Excel and subsequently interpret selective operating, credit, and equity valuation data. Based on this information, students learn how to (1) evaluate a company's operating and financial performance, (2) develop an appropriate capital structure by structuring debt and equity transactions which not only protect both the creditors and shareholders, but also create an appropriate risk and reward equilibrium, and (3) formulate an educated investment opinion and propitiously time entry and exit trading points.

Financial Reporting & Analysis

ACCT-GB 6302 3 units.

Prerequisites: ACCT-UB 3 and sophomore standing.

Not open to students who have completed ACCT-UB 21.

This course is part of a sequence ideal for students who wish to pursue careers in investment banking, investment management, consulting, and public accounting. In addition to being a required course for students concentrating in accounting, it is

highly recommended for those concentrating in finance, economics, marketing, and information systems. The course complements Financial Statement Analysis (ACCT-UB 3) by providing a more extensive analysis of financial statements and their underlying financial reporting rules. It uses tools learned in Financial Statement Analysis, such as ratio and accounting analysis, to discuss financial reporting principles, emphasizing the link between reporting principles and financial statements. Students learn how management uses financial reporting decisions to influence reported income and asset and liability values, and they gain the tools necessary to analyze the impact of alternative reporting decisions on financial statements.

Auditing

ACCT-GB 6313 3 units.

Prerequisites: ACCT-UB 1 and ACCT-UB 3.

Cross-listed with ACCT-GB-3313.

This course provides an understanding of fundamental concepts underlying the examination of financial statements by the independent public accountant (also known as the auditor). Topics include the history and regulatory environment of the auditing profession, analysis of the auditing and reporting standards, and particular emphasis on the evaluation of evidential matter and the systems of internal control. Critical thinking and communication skills are developed through a variety of means including case analyses of current events, qualitative and quantitative problem solving, regulatory interpretation and the use of information technology tools.

Accounting for Financial Instruments

ACCT-GB 6317 3 units.

Prerequisite: ACCT-UB 3.

This course provides a conceptually sound and comprehensive treatment of the complex, developing, and imperfectly consistent financial reporting rules for financial instruments and particularly structured financial transactions. Two related facts provide the context for this course: (1) market participants continually design new financial instruments and transactions; and (2) the half-life of new financial reporting rules for financial instruments is about five years. Given these facts, the course aims to provide students with the intellectual tools to understand new financial reporting rules for financial instruments and transac-

tions as they are written and to understand how newly developed financial instruments and transactions can stress existing financial reporting rules. Such understanding requires an awareness of the economically important features of the transactions and how, generally, these features are only partially captured by financial reporting rules.

Advanced Accounting Concepts

ACCT-GB 6326 3 units.

Prerequisite: ACCT-UB 3.

This course focuses on four major issues in financial reporting: (1) accounting for mergers and acquisitions; (2) preparation of consolidated financial statements; (3) translation of foreign currency financial statements and foreign currency transactions; and (4) accounting for derivatives, including the use of derivatives in hedging transactions.

Advanced Managerial Accounting

ACCT-GB 6331 3 units.

Prerequisites: ACCT-UB 4 and junior standing.

This course focuses on decision making in single- and multi-period environments where there are uncertainties and complex combinations of costs. It considers examples involving service and financial institutions and highlights current practices in performance management and evaluation.

Taxation of Individuals & Business Income

ACCT-GB 6380 3 units.

Prerequisites: ACCT-UB 1 and junior standing. Counts toward completion of the taxation core for the CPA track.

This course helps students develop a basic conceptual understanding of federal income taxation and provides tools for practical application to business and nonbusiness situations. Topics include capital asset and property transactions, business and personal deductions, depreciation, depletion, accounting methods and periods, retirement plans, tax units, and the alternative minimum tax system. While emphasis is on taxation of individual business income, the course also provides an introduction to the taxation of corporations and partnerships. During the fall semester, students are required to enter the annual tax tournament scheduled for late November. Students in the spring semester are required to complete a group take-home project similar to the tax tournament case study.

Internal Controls & Accounting Information Systems

ACCT-GB 6415 4 units.

Prerequisites: ACCT-UB 3 and sophomore standing.

Information technologies impact every aspect of accounting, including financial reporting, managerial accounting, auditing, and taxation. The storage of business assets and financial information has led to recent professional pronouncements requiring that accounting professionals understand the technology controls used to process and record this information. As information increasingly becomes digitalized, significant opportunities exist for accounting professionals and their firms to leverage technology tools to become more efficient in performing traditional services and open opportunities for new client services. The purpose of this course is to help students understand how to use and participate in the design of accounting information systems and how to audit these systems. The course will also help students learn how to assess and consider the impact of IT governance, risk, and compliance on accounting functions, focusing on how IT affects business process and controls as well as the impact on financial reporting. The course also enables students to understand issues and developments in IT Auditing so that as practitioners, they can properly determine how to assess accounting system controls to effectively address the adequacy of controls in audited systems or for those systems for which they have management responsibility.

Topics in Advanced Communication in Accounting

MCOM-GB 6205 2 units.

Prerequisite: ACCT-UB 3.

Persuasive communication is vital to many aspects of business life. This advanced course blends theoretical models for effective persuasion with practical application of course material in simulated accounting settings. Exercises focus on communicating to potential audiences of internal and external colleagues including peers, senior managers, clients, and potential new business partners.

Judgment & Decision-Making

MGMT-GB 6251 2 units.

Prerequisite: ACCT-UB 3.

Successful business management depends on a thorough understanding of how people make decisions. Although traditional “rational” models of human reasoning make clear predictions about how people should make decisions, these models fail to fully capture how people actually make decisions in the real world. This course seeks to inform future accountants of the sometimes counterintuitive, but often predictable rules, processes, and heuristics that guide everyday decision-making, as well as how knowledge of these rules can be utilized to improve accuracy and effectiveness within the accounting field.

Collaboration, Conflict, & Negotiation

MGMT-GB 6259 2 units.

Prerequisite: ACCT-UB 3.

Successful business managers and consultants must know how to collaborate effectively with others and

resolve conflicts constructively. This course teaches students the fundamentals of managing collaboration and conflict both in one-on-one and in small group settings. It aims to enhance students’ interpersonal skills at their jobs. Drawing from the latest findings in managerial psychology, the course covers the fundamentals of effective negotiation, communication, and persuasion. Special topics include getting buy-in, coping with resistance, and building coalitions.

Independent Study in Accounting
ACCT-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.



Computing & Data Science

(INFO-UB)

Program of Study

Information Technology permeates most modern business organizations, forming the foundation of how the organization conducts their business. Industries are continuously transformed by rapidly changing technology: finance, insurance, retail, media, healthcare, education, travel, advertising, and automotive are just a few examples of industries that have been and continue to be transformed by computing and the wide availability of data.

The Computing & Data Science concentration provides students with the fundamentals for working in these industries using computing and data science, and in parallel provides an understanding of the implications of these technologies for business managers. Due to the rapidly chang-

ing nature of technology, new courses are often introduced. Check the Stern website for the most recent list.

COMPUTING & DATA SCIENCE CONCENTRATION REQUIREMENTS (12 UNITS)

Students who choose to pursue a Computing & Data Science (CDS) concentration must take four information systems electives in addition to the required core course, *INFO-UB 1, Information Technology in Business & Society*.

Notes:

- Students may also import one computer science elective with the permission of the undergraduate faculty adviser. The computer science elec-

tive course should not overlap with the Stern electives that are counted toward the concentration, and should be relevant to the concentration.*

- Juniors and seniors may also register for select MBA courses if these courses do not have an equivalent undergraduate course. The permission of the undergraduate faculty adviser is required.

* *CSCI-UA.0002—Introduction to Programming (Python)* can be imported, but cannot be counted together with *INFO-UB 23* toward the requirements for the concentration. *CSCI-UA.0004—Introduction to Web Design & Computer Principles* is not relevant to the concentration and cannot be imported.

Courses

FUNDAMENTAL COURSE

Information Technology in Business & Society

INFO-UB 1 4 units.

Prerequisite: Sophomore standing.

This course provides the background necessary to make decisions about computer-based information systems and to be an “end-user.” Two major parts of the course are hands-on experience with personal computers and information systems management. Group and individual computer assignments expose students to electronic spreadsheet analysis and database management on a personal computer. Management aspects focus on understanding computer technology, systems analysis and design, and control of information processing by managers.

ADVANCED COURSES

Introduction to Programming & Data Science

INFO-UB 23 3 units.

This course is the recommended starting point for undergraduate students who are interested in jobs in the rapidly growing fields of data science and data analytics, or who are

interested in acquiring the technical and data analysis skills that are becoming increasingly relevant in other disciplines such as finance and marketing. The course does not have any prerequisites. It will provide an introduction to programming (using Python) and cover topics related to the collection, storage, organization, management, and analysis of large volumes of data (using SQL).

Projects in Programming & Data Science

INFO-UB 24 3 units.

This course is the follow-up to *Introduction to Programming & Data Science (INFO UB-23)*. It is recommended for undergraduate students who are interested in (1) jobs in the rapidly growing fields of data science and data analytics, or in (2) acquiring the technical and data analysis skills that are becoming increasingly relevant in all disciplines. *Introduction to Programming & Data Science* forms the basis for this course, but it is not a prerequisite. Students with basic knowledge of programming in Python and SQL are welcome to join. This course covers select topics that build on the prior coursework and is

largely project-based, with students working on projects that utilize the skills learned in this class and the prior *Programming & Data Science* course.

Data Analytics in Digital Marketing

INFO-UB 38 3 units.

The internet continues to revolutionize the way people, businesses, and governments interact with each other. From Twitter to Facebook to Google, the shared infrastructure of IT-enabled platforms are playing a massive transformational role in today's digital age. The web is now encroaching upon core business activities such as new product design, advertising, marketing and sales, word-of-mouth, and customer service. It is fostering newer kinds of community-based business models. There is a significant amount of economic value accruing from the content generated in spaces mediated by social media, and there are tangible means for monetization of such content through newer forms of online and mobile advertising. These processes are just beginning and will have enormous impact on daily activities and the way users

relate to people and organizations. This course examines the major trends in electronic and mobile commerce and the emerging phenomena of user-generated content. In addition to internet marketing strategies and business applications, the course covers the business implications of social media, such as blogs and microblogs, wikis, social networking sites, search engine and display advertising, and other multimedia content emerging on mobile phone-based platforms.

Financial Information Systems
INFO-UB 50 3 units.

Prerequisite: Sophomore standing.

The financial services industry is being transformed by regulation, globalization, and increasingly by innovative financial technology or FinTech firms. This course explores these forces with an emphasis on how technology is both a driver of change, as well as the means for its implementation. Coursework focuses on understanding retail and institutional payment systems, including blockchain and crypto-currencies, as well as financial markets, their structure and evolution, algorithmic and quant trading, dark liquidity, and alternative trading markets. The class brings both the business practitioner and technologist closer together using a combination of lectures, readings, news, case studies, and guest lectures.

Risk Management in IT
INFO-UB 51 3 units.

The national and economic security of the U.S. and all nations depend on the reliable functioning of critical infrastructure. This includes financial, communications, power, health, and essential systems or services relying on information technology. Recent events demonstrate that governments, businesses, and individuals are vulnerable to attack from external adversaries, as well as self-inflicted difficulties. Intellectual property can be stolen, customers' privacy violated, and operations disrupted. Such events drive up costs, reduce revenue, impact innovation, and cause reputational damage. To better address these risks, President Obama issued Executive Order 13636, "Improving Critical Infrastructure Cybersecurity," on February 12, 2013, which established that "[i]t is the Policy of the United States to enhance the security and resilience of the Nation's critical infrastructure and to maintain a cyber

environment that encourages efficiency, innovation, and economic prosperity while promoting safety, security, business confidentiality, privacy, and civil liberties." This course addresses issues faced by management, CIO, and board level, who are responsible for ensuring the security of an organization's technology, communications, and data infrastructure. It will also address topics in governance, operational risk, secure systems development, cybersecurity, privacy, disaster recovery, and protecting intellectual property using a combination of lectures, readings, news, case studies, and guest lectures.

Robo Advisers & Systematic Training
INFO-UB 52 3 units.

Prerequisite: Sophomore standing.

This course begins by asking whether machines make better decisions than humans, and the *raison d'être* for the emergence of "Robo Advisors" and systematic investing as alternatives to traditional investment alternatives. The course covers the basis, evaluation, and execution of trading strategies that are commonly used by professionals in financial markets. The strategies are grounded in data of various forms including prices, fundamentals, as well as unstructured data from news sources. The second part of the course creeps into Artificial Intelligence and its exploration in modern decision making systems. The investment strategies cover equity and derivatives markets, and the commonly used trading strategies employed by professionals in these markets. The assignments focus on how to construct indicators that measure the state of a market, the development of trading strategies based on these indicators, and the measurement and management of risk associated with the strategies. The course is useful to anyone interested in hedge funds, sales and trading, operations, and the technologies in the world of investments.

Data Mining for Business Analytics
INFO-UB 57 3 units.

This course teaches students how to structure and solve business problems using data-driven analysis and modeling. The course has three closely related goals: (1) to introduce students to state-of-the-art data-mining methods that support decision making by extracting useful knowledge

from the increasingly large volume of data that organizations collect; (2) to provide an analytical framework within which students can apply these data-mining techniques successfully to data-rich business problems; and (3) to give students hands-on experience with using the techniques to extract knowledge from data. Emphasis is on creative problem formulation and analysis. The course assumes prior knowledge of Microsoft Excel and the fundamentals of finance, marketing, and operations at the level of the Stern core courses. Prior experience with a programming language or with data mining is useful but not necessary.

Networks, Crowds, & Markets
INFO-UB 60 3 units.

Prerequisite: Sophomore standing.

Counts toward Computing & Data Science concentration and Digital Marketing track.

While one's "social network" is now associated with digitally mediated social media, people have always been creatures of their networks—families, villages, tribes, companies, and now Facebook, Instagram, Snapchat, and WeChat. This course is about how the social, technological, and natural worlds are connected, how technology illuminates and shapes these connections, how the study of networks sheds light on these connections, and how networks enabled by digital technologies are leading to the emergence of new institutions and market forms. Topics include social network structure and its effects on business and culture; how the structural properties of networks help us understand social capital and power; the propagation through networks of information, fads, and disease; power laws; leveraging information networks for web search; the melding of networks, machine learning, and technology into the peer-to-peer markets that comprise the new sharing economy, online labor, and other crowdsourcing and crowdfunding platforms. The course features a number of guest speakers.

Digital Innovation & Crowdsourcing
INFO-UB 70 3 units.

Prerequisite: MGMT-UB 1.

This course explores new ways in which traditional firms as well as start-ups can become more innovative in today's global digital economy by tapping into digital platforms for

information, ideas, expertise, and skills. We will discuss new practices of digital innovation and crowdsourcing and evaluate risks and benefits of such practices. The course focuses on qualitative analysis of cases, application of strategic theories, hands-on exercises, and meeting of industry leaders. Students will engage in real-time crowdsourcing projects ranging from outsourcing their homework online to designing a social innovation challenge.

Independent Study in Computing & Data Science

INFO-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a reg-

ular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

**ADDITIONAL COURSES THAT CAN BE TAKEN AS
ADVANCED COMPUTING &
DATA SCIENCE ELECTIVES**

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision-Making Under Uncertainty

MULT-UB 16 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision Analytics for Sports

OPMG-UB 54 3 units.

Full course description can be found in the Department of Operations section (page 53).

Regression & Multivariate Data Analysis

STAT-UB 17 3 units.

Full course description can be found in the Department of Statistics section (page 55).



Economics (ECON-UB)

Programs of Study

Economics provides a framework for thinking about businesses, individuals, and their interactions, as well as the consequences that such interactions have for domestic and global economic outcomes. The economics toolkit includes both theoretical models and data analysis techniques. These skills are valuable to all students, whether their path leads them to the business world, graduate school, or elsewhere. Economics graduates work in a broad range of industries and activities including finance, consulting, and technology.

The Stern Department of Economics offers two concentrations: Business Economics and Econometrics & Quantitative Economics. Both are designed to present choices and flexibility, and include courses at Stern as well as in the highly-regarded Department of Economics at the College of Arts & Science (CAS).

BUSINESS ECONOMICS CONCENTRATION REQUIREMENTS (12-14 UNITS)

Students pursuing the Business Economics concentration must fulfill the following requirements:

- Stern Economics core courses: Microeconomics (ECON-UB 1) and Economics of Global Business (ECON-UB 11). Substitutions may be allowed with the Stern Economics Department's permission.
- Four elective courses offered by Stern Economics, CAS Economics (all 200 and 300 level courses except the ones listed in the note in the next column), or from the set of other Stern courses listed in the next column. Other courses may be taken with the Stern Economics Department's permission. At least two electives must be Stern courses.

Note: The following 200- and 300-level CAS Economics courses are not open to Stern students: Money & Banking (ECON-UA 231), International Economics (ECON-UA 238), and Financial Economics (ECON-UA 368). Stern students cannot take Economic Principles I or II (ECON-UA 1 or ECON-UA 2), Intermediate Microeconomics (ECON-UA 10), or Statistics (P) (ECON-UA 18); required Stern courses cover similar material.

ECONOMETRICS & QUANTITATIVE ECONOMICS CONCENTRATION REQUIREMENTS (24-26 UNITS INCLUDING MATH REQUIREMENTS)

The Econometrics & Quantitative Economics concentration is aimed at students looking for a more quantitative collection of courses. These courses are of interest to students considering graduate school in economics or finance, as well as those looking to develop a sound foundation in modern quantitative skills. The E&QE concentration is classified as a STEM Degree by the U.S. Department of Homeland Security (thus allowing graduates to apply for a longer period of practical training).

Students pursuing this concentration must fulfill the following requirements:

- Stern Economics core courses: Microeconomics (ECON-UB 1) and Economics of Global Business (ECON-UB 11). Substitutions may be allowed with the permission of the department.
- Econometrics and Mathematics courses: Econometrics (ECON-UB 251) or Econometrics (SHU-9301) and two of the following math courses: Calculus I (MATH-UA 121), Calculus II (MATH-UA 122), Calculus III

(MATH-UA 123), or Linear Algebra (MATH-UA 140). For transfer students only: Math for Economics II (MATH-UA 212) and Math for Economics III (MATH-UA 213).

- Four Stern or CAS Economics elective courses (most 200 and 300 level courses are permitted), or from other Stern courses listed in this section. At least two of the electives selected must come from the Frontiers of Economics sequence (ECON-UB 10, 232, 233, 234).

Other combinations may be permitted with permission from the department adviser.

Students pursuing either a Business Economics concentration, and especially an Econometrics & Quantitative Economics concentration, are encouraged to pursue advanced coursework in the CAS Mathematics department, possibly through the completion of a CAS major in Mathematics. More information regarding the Mathematics major can be found on the CAS Math Department's website at math.nyu.edu. Students interested in pursuing a major in any CAS area are encouraged to discuss this option and how it might fit into their overall curricular plan with their Stern academic adviser.

Students who are unsure which courses best fit their interests and career plans are encouraged to contact the Stern Office of Academic Advising as well as the Department of Economics faculty adviser. Since sequencing is an issue, students are urged to do so early in their Stern careers.

Courses

The list of courses is divided into core courses and electives. Note that many courses require as a prerequisite one or both of the core courses. Students can satisfy the ECON-UB 1 requirement with ECON-UA 2 or the equivalent (a microeconomics course with calculus).

STERN ECONOMICS CORE COURSES

Microeconomics

ECON-UB 1 4 units. Fall and spring.
Prerequisite: MATH-UA 121 or equivalent (AP Calculus AB/BC scores of 4 or 5).

This course covers basic microeconomic principles including applications of supply and demand analysis; consumer choice; theory of the firm under perfect and imperfect competition; game theory and strategy; and theory and policy issues in market imperfections, such as monopoly and antitrust, externalities and regulation, imperfect information and regulation, and income distribution.

Intermediate Microeconomics

ECON-UB 9 4 units.
Prerequisite: ECON-UA 2 or equivalent.
This course is for transfer students only and not open to students who have taken ECON-UB 1.

This course studies decision-making by consumers and firms and how they interact in the marketplace, with an emphasis on efficiency properties of the market allocation. The course outlines the conditions under which such allocation cannot be improved upon as well as those scenarios where market power, private information, or externalities call for intervention by the regulator.

Economics of Global Business

ECON-UB 11 4 units. Fall and spring.
Prerequisites: ECON-UB 1 or equivalent and sophomore standing.

This course examines the forces driving globalization—the integration of national business activities into globally competitive markets. The first part of the course discusses international trade—the role of comparative advantage and the gains from trade and the reasons for and effects of government policies that create impediments to trade. The second part of the course provides an overview of macroeconomic measurement and basic theoretical concepts of macroeconomics. The third part of the course surveys the role of money and finance in global economic activity. Topics discussed include the role of exchange rates and international flows of capital.

ECONOMICS ELECTIVE COURSES

Competitive Analysis

ECON-UB 15 3 units.
Prerequisites: ECON-UB 1 or equivalent and sophomore standing.
Counts toward Business Economics, Marketing, and Management concentrations.

This course offers an economics approach to analyzing the way firms make marketing decisions and interact strategically with each other in the marketplace. The main goal is to develop the basic intuition for pricing and other forms of strategic behavior on the part of firms.

Economics of Innovation

ECON-UB 119 3 units.
Prerequisites: ECON-UB 1 and Stat-UB 1 or equivalent.

Why are some people and firms more innovative than others? This course studies the behavior of inventors, artists, and writers to figure out what makes people creative, what encourages firms to take the risks that are inherent in innovation, and what types of institutions encourage people to do their best work. Class work alternates between weekly lectures and hands-on laboratory work. Lectures discuss current research on the determinants of creativity and innovation. Laboratory sessions use real data sets from recent research to gain hands-on experience with data analysis.

Economics of Media & Entertainment

ECON-UB 120 3 units.
The media and entertainment industries (including professional sports) share a series of peculiar features. Essentially, they (1) produce an intangible output (e.g., a music recording), which can be distributed in a variety of forms and (2) do so based on an input which is extremely idiosyncratic—the creative output of a person or group of persons (e.g., a singer or a band). Finally, (3) recent technological innovation has changed the balance of power between the various players and led various industry segments to reinvent their business model. This course provides an introduction to the businesses of media and entertainment including value chain, key players, significant trends, and more. It takes a distinctive economics perspective to understanding how the forces of supply and demand have changed the business model of various industry segments.

Economics of Chinese Entertainment Media & Tech

ECON-UB 125 2 units.

Prerequisite: ECON-UB 1 or equivalent.

This course analyzes the economic issues facing Chinese business in the Entertainment, Media, & Technology industries. Given differences in institutions, market structure, socio-economic development, and regulatory frameworks, what are the simultaneous challenges of foreign market entry into China and Chinese market entry abroad? How is the Chinese market structure different from other economies and how is it evolving? How does the Chinese government influence domestic business and expansion abroad? What are the de jure vs. de facto differences in Chinese regulation? How do the political and regulatory environments inside China impact foreign firms? How have Chinese firms fared as they expand abroad and what political, regulatory and economic challenges have they faced? This course addresses these and other related questions in an effort to prepare Stern students for the complex reality of China's growing economic influence and the unique features of the EMT sector in China. Specific coverage will be given to the film, television, publishing, internet, and broader technology sectors. While many Stern courses recognize the critical role that institutional and political contexts play in business decision making, this course focuses specifically on the interaction between domestic and international firms and the government within China as well as globally.

Health Economics

ECON-UB 140 3 units.
Prerequisite: ECON-UB 1 or equivalent.

This undergraduate elective course provides an introduction to the field of health economics. The course applies economic principles and empirical methods to study topics in health and medical care, including the demand for medical care and medical insurance, institutions in the health sector, economics of information applied to the market for health insurance and for healthcare, measurement and valuation of health, and competition in healthcare delivery. Emphasis is on the United States, with a brief treatment of health economics research in other countries and comparisons of health systems in other developed and less developed countries.

Economics of Sex, Drugs, & Rock & Roll

ECON-UB 210 3 units.

Prerequisite: ECON-UB 1 or equivalent.

This course shows students how economics can be used as an aid in understanding almost every aspect of human behavior: drug addiction, drug policy, crime, marriage, divorce, pornography, prostitution, suicide, religion, assisted reproduction, abortion, sports, gambling, and rock and roll music. With special attention paid to the evolution of economic ideas, as well as state-of-the-art economic theory and empirical analysis, the value of economics in shedding analytical light on these behaviors is demonstrated. Further, this course provides students with sufficient knowledge to decipher between the economic facts and economic myths that pervade popular news media, particularly on topics such as the legalization of drugs and the advantages and disadvantages of capital punishment.

Sports Economics

ECON-UB 211 3 units.

Prerequisite: ECON-UB 1, STAT-UB 1, or equivalent.

This course applies microeconomic theory and econometric analysis to sports and explores some public policy issues that have arisen in the design of sports competitions. The course is divided into four main parts: the structure of sports leagues, labor market issues, college sports, and the market for sports betting.

Transportation Economics

ECON-UB 212 3 units.

Prerequisite: ECON-UB 1 or equivalent.

This undergraduate course applies microeconomic analysis to the transportation industry. The scope of the course is broad by design, involving all transport markets, such as the intercity, rural, urban, and international markets, and all transport modes, such as railroads, highways, air carriage, transit, pipelines, and waterways. The objective is for students to acquire an understanding of the underlying economics of transportation provision, including demand, costs, the pricing and quality of service, regulation and regulatory reform, competition between the various modes, highway congestion, and the level of subsidies to mass transit. New York City's transportation network is a cooperation of very complex systems of infrastructure, and students will have the unique opportunity to hear from several guest lecturers, including speakers from the MTA and the Taxi & Limousine Commission.

Psychology & Economics

ECON-UB 213 3 units.

Prerequisite: ECON-UB 1 or equivalent.

The interface of psychology and economics has a long history. In the 19th century, classic economics texts by the likes of Adam Smith, Alfred Marshall, and Francis Edgeworth contained psychological insight and did not insist that individuals were always rational or self-interested. In the 20th century, however, psychology and economics took different paths as psychologists used experiments to chart how people think and behave while economists turned to highly simplified models of individual agents as building blocks for theories of markets and strategic behavior. One view is that psychology emulated biology, accumulating carefully documented facts, while economics aspired to be like a physics of social life. This course explores the modern attempt to draw the disciplines back together, which is most commonly termed "behavioral economics." This body of research incorporates psychological regularities into economics while being formal and predictive.

Global Perspectives on Enterprise Systems

ECON-UB 220 3 units.

Prerequisite: ECON-UB 1 or equivalent.

This course compares the development of rich and "emerging market" countries over time. Through both macro- and microeconomic perspectives, it examines political, cultural, and economic similarities and differences of national enterprise systems, paying special attention to impacts of government, financial institutions, entrepreneurship, and management.

Monetary Policy

ECON-UB 221 3 units.

Prerequisite: ECON-UB 11 or equivalent.

Monetary policy in the United States and around the world is frequently in the news as policymakers work hard to control inflation, bring about balanced growth, and maintain the stability of the financial system. This is an elective course that examines the institutions that run macroeconomic and financial sector policy both in the United States and around the world. The course explains the functions of the central banks, including the Federal Reserve and international financial organizations like the IMF.

Asian Economies

ECON-UB 222 3 units.

Prerequisite: ECON-UB 11 or equivalent.

This course covers the economic development and current structure of Asian economies, as well as the rise of regional economic interaction and institutions with a focus on East Asia and India. For the last 50 years, the Asian region has arguably been the most vibrant in the world in terms of economic growth. The experiences of these countries also provide interesting challenges to some of the usual assumptions about how economies and corporations should be organized and governed to be successful. The course examines what problems these countries may confront in the future and what issues students will need to understand to operate in these markets.

Business of Platforms & Networks

ECON-UB 224 3 units

Prerequisite: ECON-UB 11 or equivalent

This course analyzes the business of platforms, such as Uber, Airbnb, and credit cards that bring together two sides of a market (drivers and users; apartments and users; merchants and consumers). In platforms, there are positive feedback effects. The more users use Uber, the more drivers it attracts, and vice versa. Feedback effects result in high market concentration and high profits. Often, smaller platforms are marginalized or exit the market. The course considers the factors and strategies that lead to success in platforms and applies them to Uber, Airbnb, credit cards, eBooks, cell phones, computer operating systems, and other industries.

Business & the Environment

ECON-UB 225 3 units.

Environmental problems typically arise from "market failures." This course examines several environmental issues at local, national, and international levels, with a particular focus on energy and climate change, but also briefly on water and population. Drawing on the theories of externalities, market failure, and mechanism design, it explores the causes of these problems and some of the potential remedies, including government regulation, "cap-and-trade," and carbon taxes, as well as voluntary potential related business opportunities. The schedule includes lectures by relevant industry representatives.

Global Macroeconomics

ECON-UB 230 3 units.

Prerequisite: ECON-UB 11 or equivalent.

This course introduces students to international macroeconomics and analyzes current international macro-

economics and financial issues, policies, and events, including current global economic conditions in the United States, Europe, and Asia and emerging market economies; interest rates, exchange rates, and asset prices in the global economy; causes and consequences of trade deficits and external imbalances; emerging market economies; financial crises; causes of currency, banking, and financial crises; short- and long-term effects of monetary and fiscal policy asset bubbles, credit booms, and financial crises; and the globalization of financial markets. These topics are integrated into a theoretical framework that stresses international factors from the start. Examples from the United States, Europe, Japan, China, and emerging market economies are used to enhance knowledge of the world economy.

The Economy of Cities

ECON-UB 237 3 units.

Prerequisites: ECON-UB 1 and STAT-UB 1 or equivalent.

Why do Wall Street firms pay such high rent to locate in Downtown Manhattan? Why do technology firms cluster together in Silicon Valley? How is London likely to be affected by Brexit? Why is housing so expensive in San Francisco compared to Houston? The goal of this course is to answer these sorts of questions by analyzing cities as economic systems. The course introduces students to a standard set of urban economic theories and shows how these tools can be applied to the real world through a set of case studies of firms and cities. The course covers a range of topics including real estate development and zoning regulations, transportation infrastructure investments, local technology spillovers and innovation clusters, the role of investments in local public goods such as education, and more.

Global Economic Trends

ECON-UB 240 3 units.

Prerequisite: ECON-UB 1 or equivalent.

This course gives students the opportunity to familiarize themselves with some of the most important trends that will affect the global economy during their lifetime, understand their drivers, and come to appreciate the policy challenges that they entail. The topics include population growth and aging, international migration, technological progress, globalization, inequality, urbanization, climate change, and congestion.

The following four courses constitute the Frontiers of Economics sequence, which is designed to develop quantitative skills and apply them to economic issues and projects.

Quantitative Microeconomics

ECON-UB 10 3 units.

This course covers a series of advanced microeconomics topics aimed to introduce students to important issues as well as to quantitative tools commonly used by researchers, managers, and policymakers. The set of tools includes, in a special way, game theory. Course topics are primarily focused on industrial organization and include: trust and reputation, contracts, market segmentation, auctions, consumer behavior, innovation, network, and platforms.

Data Bootcamp

ECON-UB 232 3 units.

Data Bootcamp is about the nuts and bolts of data analysis. Students learn about economic, financial, and business data, as well as the basics of computer programming. Applications include some or all of the following: leading economic indicators; country indicators; bond and equity returns; stock options; income by zip code; “long tail” sales data; innovation diffusion curves; attendance data for plays and sports teams; and many others. The course uses Python, a popular high-level computer language widely used in finance, consulting, and other areas of the business world. “High-level” means that it’s less difficult than most (the hard work is done by the language and its collection of tools), but it is a serious language with extensive capabilities. “Analysis” means primarily graphical descriptions that summarize the properties of data in ways that are helpful to managers.

Macroeconomic Foundations for Asset Prices

ECON-UB 233 3 units.

Prerequisite: MATH-UA 121 or equivalent.

This course is about links between asset prices (particularly prices of equity indexes and bonds) and the economy as a whole (particularly business cycles, inflation, and monetary policy). It’s also about the tools used to study these links: mathematical tools, economic tools, and software tools. Possible topics include the relation between economic growth and asset returns, “arbitrage-free” asset pricing, equity index options, the volatility smile, monetary policy and inflation, and the term structure

of bond prices and interest rates. For each of these topics, macroeconomic foundations are a source of insight into the behavior of asset prices.

Advanced Topics in Modern Macroeconomics

ECON-UB 234 3 units.

Prerequisites: MATH-UA 121 or equivalent and sophomore standing.

This course considers the acquisition and processing of information to guide forecasting, investment, and other decisions. Students develop such tools as Bayesian analysis and measures of information content and capacity, and then apply each to decisions about what kinds of information to acquire and how to use that to make effective economic and financial decisions.

Independent Study in Economics

ECON-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

Other Stern Electives

Game Theory

MULT-UB 20 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

The Financial System

MULT-UB 27 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

CAS ECONOMICS ELECTIVE COURSES

For an updated list of Economics elective courses offered by the College of Arts & Science, see the Department’s website at as.nyu.edu/econ.



Entrepreneurship

Program of Study

There is a heightened need for education about entrepreneurship today. Students wish to start companies during school or upon graduation. Perhaps a larger number do not want to become entrepreneurs immediately, but wish to learn about the subject with an eye on starting a company in the future. Most importantly, as the landscape of employment changes over the coming decades, an entrepreneurial mindset and toolkit will be increasingly useful, even necessary, for a successful career.

The Entrepreneurship co-concentration creates a curriculum that is not exclusively practice-based, but also grounded in somewhat invariant theory that emerges from academic research.

The Entrepreneurship concentration is most effective when studied in conjunction with an additional Stern concentration. Therefore, students who wish to pursue the Entrepreneurship concentration must also complete an additional Stern concentration.

ENTREPRENEURSHIP CONCENTRATION REQUIREMENTS (12 UNITS)

Students must take a minimum of four courses and earn at least 12 units. These 12 units must include the following:

Patterns of Entrepreneurship*
MGMT-UB 85

Plus three electives (at least 9 units):
Choose three additional courses from the approved Stern Entrepreneurship electives below:

Topics in Entrepreneurial Finance
FINC-UB 61

Design & Development of Web & Mobile Apps
INFO-UB 22

Introduction to Programming & Data Science
INFO-UB 23

Networks, Crowds, & Markets
INFO-UB 60

Digital Innovation & Crowdsourcing
INFO-UB 70

Managing People & Teams at Work
MGMT-UB 7

Managing Family Businesses & Privately-Held Firms
MGMT-UB 28

Brand Strategy & Planning
MKTG-UB 55

Search & the New Economy
MULT-UB 36

Social Entrepreneurship
MULT-UB 41

Entrepreneurship in Law & Practice
MULT-UB 86

Getting to Launch: The Lean Startup Lab
MULT-UB 301

* If this course is not offered in a given term, students may consult with the faculty adviser for alternative course suggestions to fulfill this requirement.

Note: A Stern elective course may satisfy only one concentration requirement (e.g., Patterns of Entrepreneurship can count toward the Entrepreneurship concentration requirement OR as an advanced Management elective, but it cannot satisfy both requirements). Refer to page 113 in the Policies & Procedures of the College section of this bulletin for more information about the restrictions on double-counting Stern coursework.

Core Courses

Patterns of Entrepreneurship
MGMT-UB 85 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Additional Courses that can be taken as Entrepreneurship Electives:

Topics in Entrepreneurial Finance
FINC-UB 61 3 units.
Full course description can be found in the Department of Finance section (page 36).

Design & Development of Web & Mobile Apps
INFO-UB 22 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Introduction to Programming & Data Science
INFO-UB 23 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Networks, Crowds, & Markets
INFO-UB 60 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Digital Innovation & Crowdsourcing
INFO-UB 70 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Managing People & Teams at Work

MGMT-UB 7 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Family Businesses & Privately-Held Firms

MGMT-UB 28 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Brand Strategy & Planning

MKTG-UB 55 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Search & the New Economy

MULT-UB 36 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Social Entrepreneurship

MULT-UB 41 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Entrepreneurship in Law & Practice

MULT-UB 86 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Getting to Launch: The Lean Startup Lab

MULT-UB 301 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).



Finance (FINC-UB)

Program of Study

In general, finance can be divided into two subfields—corporate finance and investments/capital markets. The Finance chart on page 41 lists advanced electives by the subfield to which they belong and the associated prerequisites. The material in several courses overlaps both subfields. The two-course sequence of Foundations of Finance (FINC-UB 2) followed by Corporate Finance (FINC-UB 7) provides an excellent overview of these two areas within finance for students who are not pursuing this concentration.

Students concentrating in finance should consult with their adviser in

the Stern Office of Academic Advising by the end of their sophomore year to ensure that course distribution requirements are being met and to formally declare the finance concentration. A Department of Finance undergraduate faculty adviser is always available to advise on finance course selection or other matters students may wish to discuss.

FINANCE CONCENTRATION PROGRAM REQUIREMENTS (12 UNITS)

Students who decide to concentrate in finance must take 12 units (the

equivalent of four 3-unit courses) in finance in addition to the required core course, Foundations of Finance (FINC-UB 2). These 12 units must include the following:

Corporate Finance FINC-UB 7

Plus 9 units from among the courses listed in the Advanced Courses section on the following pages.

Courses

CORE COURSE

Foundations of Finance

FINC-UB 2 4 units. Fall, spring, and summer.

Prerequisites: STAT-UB 103 or STAT-UB 1, and STAT-UB 3 or ECON-UA 18 or ECON-UA 19, and ECON-UB 1 or ECON-UA 2 or ECON-UA 5, and sophomore standing. *Corequisite:* ACCT-UB 1.

This is a rigorous course that helps students develop basic concepts and tools of modern finance. It explores in detail basic concepts of return and risk with a view to understanding how financial markets work and how different kinds of financial instruments are valued. These instruments, including equities, fixed income securities, options, and other derivative securities, become vehicles for exploring various financial markets and the use of these markets by managers in different kinds of financial institutions to enhance return and manage risk.

REQUIRED COURSES FOR FINANCE CONCENTRATION

Corporate Finance

FINC-UB 7 3 units. Fall, spring, and summer.

Prerequisite: FINC-UB 2.

This course helps students develop an analytical framework for understanding how organizations make investing and financing decisions. Students also

learn the theory and practice of various valuation techniques. There is an emphasis on understanding the theory and its applications to the real world as well as appreciating the limitations of the tools in practical settings. Specific topics include capital budgeting, investment decision rules, discounted cash flow valuation, real options, cost of capital, capital structure, dividend policy, and valuation methods such as WACC and APV.

ADVANCED COURSES

Advanced Corporate Finance

FINC-UB 8 3 units.

Prerequisite: FINC-UB 7.

The purpose of this course is to familiarize students with the core concepts and theory underlying much of the general understanding of corporate finance and its impact on corporate valuation. The first part of the course consists of lectures on corporate finance theory which explore the links between a firm's financing decisions, its investment decisions, and corporate structure through the lenses of taxes, information asymmetries, and the conflicts of interest between its various stakeholders. The second part of the course consists of case studies which illustrate the relevance of the theoretical framework for understanding and designing real-world corporate financial strategy and for understanding and dealing with

strategic issues in corporate valuation. The course material is organized around central corporate finance "concepts" (debt overhang, risk-shifting, managerial agency, adverse selection, etc.) and "applications" (bankruptcy and restructuring, IPOs and valuation, M&A, corporate governance, etc.).

Alternative Investments I: Principles & Strategies

FINC-UB 15 3 units.

Prerequisite: FINC-UB 2.

This course provides both a theoretical and practical look into the world of managing alternative investments, in particular, hedge funds. The course is organized from the perspective of an asset manager (e.g. pension fund, endowment, family office, fund of funds, etc.) having to choose amongst a cross-section of hedge funds. Students are introduced to the dimensions and institutional features of the hedge fund sector, and then proceed to study how various classic hedge fund strategies (as well as more advanced quantitative strategies) are executed. Performance evaluation, risk management, and due diligence in the formation and execution of strategies are also covered. Students have access to a proprietary software platform (Focus/Vidrio) that helps them work through and understand various aspects of the manager selec-

tion and due diligence process. This course is cross-listed with and meets jointly with MBA students in FINC-GB 2350.

Risk Management in Financial Institutions

FINC-UB 22 3 units.

Prerequisite: FINC-UB 2.

This course examines the management of risks in a wide range of financial activities, with a particular focus on market risk, credit risk, and liquidity risk. It uses quantitative models to estimate credit losses, economic capital and value at risk, and to perform stress tests and scenario analysis. The course also analyzes the consequences of technological change, globalization, monetary policy, and the entry of new types of institutions into existing financial markets. It emphasizes the importance of systemic risk, moral hazard, and new regulations in light of the recent financial crisis.

Emerging Markets Finance

FINC-UB 23 3 units.

Prerequisites: FINC-UB 2 and ECON-UB 11.

The perspective in this course is of an investment manager specializing in emerging and frontier markets who is responsible for optimizing performance of investment portfolios at a bank, pension, endowment, or mutual fund. Investment opportunities in emerging financial markets around the world are examined in the context of performance optimization and global risk diversification against a typical backdrop of high per capita income growth, low leverage, favorable demographics, accelerating urbanization, and improving transparency at both the macro-policy and corporate governance levels. Challenges considered include political risk, currency risk, asymmetric information, speculative pressure, and market manipulation. Liquidity limitations, legal constraints, and varying accounting rules and standards also pose challenges to emerging market investors. These unique challenges also provide unique opportunities not available in developed markets. Asset classes range from equities, currencies, bonds, and derivatives to real estate and private equity. Class discussion and reading focus on both the theoretical background as well as practical knowledge necessary to successfully navigate the opportunities and pitfalls of emerging and frontier market investing. The course also includes a select group of guest

speakers who share their firsthand knowledge and accounts of investing and operating in emerging markets.

Debt Instruments & Markets

FINC-UB 26 3 units.

Prerequisite: FINC-UB 2.

This course describes important fixed income securities and markets and develops tools for valuing debt instruments and managing interest rate risk. The course covers traditional bond pricing, term structure, and interest rate risk concepts. It also covers the analytical and institutional aspects of fixed income derivatives, such as interest rate swaps, forwards, futures, and options, as well as bonds with embedded options and mortgage-backed securities. Topics also include credit risk, bond portfolio management, financial engineering, and international fixed income. The study of fixed income is quantitative and technical by nature.

Behavioral Finance

FINC-UB 29 3 units.

Prerequisite: FINC-UB 7.

This course uses human psychology and market frictions to shed light on asset returns, corporate finance patterns, and various Wall Street institutional practices. It starts with motivating evidence of return predictability in stock, bond, foreign exchange, and other markets. The course then proceeds to themes including the role of arbitrageurs in financial markets, the psychological and judgmental biases of average investors, and the financing patterns (such as capital structure and dividend policies) of firms that raise capital in inefficient securities markets and/or are led by irrational managers.

International Financial Management

FINC-UB 30 3 units.

Prerequisites: FINC-UB 7 and ECON-UB 11.

This course examines the operation of international currency exchange and capital markets and applies financial management principles to the financial decisions of multinational corporations. It addresses such topics as economic determinants of exchange rates, currency market efficiency, exchange rate forecasting, techniques for measuring and managing exposure to exchange and political risk and financing alternatives and capital budgeting decisions of multinational corporations. Readings and case studies are employed.

Real Estate Investment Strategies

FINC-UB 35 3 units.

This course is designed for students with a strong interest in real estate capital markets. Its target audience is students specializing in real estate for whom this is a capstone course, but it is also open to finance-oriented students who wish to gain an in-depth understanding of real estate investment analysis. Topics covered span the real estate equity and debt markets, both public and private. The bulk of the course focuses on commercial real estate, but some time is spent studying the housing markets. There are three major sections in the course: (1) structured finance and the CMBS market, (2) REITs and Publicly-Traded Real Estate, and (3) the Private Real Estate Market. The class contains a mixture of standard lectures, guest speakers, and case discussions. It meets once per week for three hours to accommodate the relatively high number of guest speakers and cases in the course.

Real Estate Capital Markets

FINC-UB 38 3 units.

This course introduces students to real estate securitization from both an equity and debt perspective. It analyzes alternative types of equity securitization vehicles including real estate investment trusts (REITs), commingled real estate funds (CREFs), real estate limited partnerships (RELPs), master limited partnerships (MLPs), and real estate swaps. The course also introduces students to mortgage-backed securities (MBSs) as an example of real estate debt securitization, and explores differences in their cash flows, prepayment, and default probabilities. It discusses the dynamics of mortgage prepayments and pricing the embedded call option in a mortgage, followed by real-world applications. Students explore such mortgage derivatives as mortgage pass-throughs, interest-only and principal-only strips, floaters and inverse floaters, and various types of collateralized mortgage obligations such as planned amortization classes.

Real Estate Primary Markets

FINC-UB 39 3 units.

Prerequisite: FINC-UB 2. Corequisite: FINC-UB 7.

This course covers the theory and measurement of return and risk on real estate financial decisions. Topics include loan valuation theory, determination of future costs, discounting procedures for cash flows of income-

producing properties, and utilization of negative cash flows. Finance theory is applied to real estate decisions regarding land subdivision, property development, lender strategies, and the role of government agencies in real estate.

Equity Valuation

FINC-UB 41 3 units.

Prerequisite: FINC-UB 7.

This course covers the valuation of stocks and businesses. Real life valuations of companies are an inherent part of the content. By the end of the course, students should be able to: (1) apply discounted cash flow analysis to find the intrinsic value of an asset; (2) define, describe, analyze, and apply any multiple (PE, Value/EBITDA, Price/Book Value, etc.) to find the relative value of an asset; (3) value any publicly traded firm, small or large, domestic or foreign, healthy or troubled; (4) value any private business for owners or investors (private equity, venture capital, IPO); and (5) separate fact from fiction, sense from nonsense, and real analysis from sales pitch in equity research reports, valuations, and general discourse.

Futures & Options

FINC-UB 43 3 units.

Prerequisite: FINC-UB 2.

This course covers the theoretical and practical aspects of futures, options, and other derivative instruments, which have become some of the most important tools of modern finance. While the primary focus is on financial derivatives, contracts based on commodities, credit risk, and other nonfinancial variables are also covered. Topics include market institutions and trading practices, valuation models, hedging, and other risk management techniques. The course requires relatively extensive use of quantitative methods and theoretical reasoning.

Portfolio Management

FINC-UB 44 3 units.

Prerequisite: FINC-UB 2.

There has been a proliferation of new products and strategies in asset management in recent years, such as smart beta, alternative beta, fundamental indexing, low volatility, and leveraged and inverse ETFs. This course applies portfolio theory to understand and evaluate these products and strategies in the context of the empirical evidence about return patterns across assets (i.e., the factors such as value/growth, momentum, and carry that drive returns) in multiple markets/asset classes (e.g., U.S. and international equities and bonds,

currencies, and commodities). Key questions addressed include:

- What factors drive asset returns? Is it risk or mispricing?
- Can this structure of returns be used to construct better portfolios and products?
- How should the performance of existing products be evaluated given the empirical evidence?

The basic theoretical framework is standard portfolio theory, as developed in Foundations of Finance, and its extensions, and the course will rely heavily on Excel modeling using real world data.

The Financial Service Industry

FINC-UB 45 3 units.

Prerequisites: FINC-UB 7.

This course provides a broad overview of investment banking and the forces that continue to impact it worldwide. It focuses on three big questions: (1) How are things done in this business? (2) Why are they done that way? (3) How are they likely to be done in the future? The approach examines each of the principal businesses in which various financial service firms have been involved, including raising capital, financial advisory, broker/dealer positions, trading, investing the firm's own capital, managing the assets of others, both institutions and individuals, and risk management. Throughout, there are a number of overarching themes. Among these are the interplay of regulation, politics, globalization, and technology; the emergence of private equity funds and hedge funds as both critical clients and potential competitors for the major investment banks; the search for new, high-margin products, and whether that process has reached its limits; and the changing relationships among the different groups within the financial service company.

Advanced Futures & Options

FINC-UB 47 3 units.

Prerequisite: FINC-UB 43.

This course consists of three parts. The first section involves a detailed examination of the pricing and hedging of option contracts, with particular emphasis on the application of these concepts to the design of derivatives instruments and trading strategies. The first part of this section is a review and re-examination of materials covered in the basic course, but with greater rigor and depth of coverage. The emphasis in the second part of this first section is on trading applications and risk management. The second section of the course is designed to provide a broad exposure to the subject of interest rate deriva-

tive products, both swaps and options. The last section of the course deals with recent innovations in the derivatives markets such as exotic options, credit derivatives, and catastrophe derivatives. In the first section of the course, the discussion of trading strategies is in the context of the management of the risk of a derivatives book. The topics covered in the second part include the relationship of swaps to other fixed income contracts such as futures contracts and forward rate agreements, valuation and hedging of swaps, building the yield curve, and valuation and hedging of interest rate options, with particular reference to caps, floors and swaptions, and modeling the term structure of interest rates. The third section of the course deals with non-standard option contracts such as exotic options and options on new underlying instruments such as credit, weather, and insurance derivatives.

Principles of Securities Trading

FINC-UB 49 3 units.

Prerequisite: FINC-UB 2.

This course is about how securities are traded including the design, operation, and regulation of trading processes, mechanisms, and protocols. Today's markets for stocks, bonds, and derivatives span a wide range in sophistication and complexity. For some securities, the market has evolved to an integrated network that offers very high levels of access and transparency. At the other extreme are markets that operate as small dealer networks sustained by reputation and relationship. Some mechanisms are new (the open electronic limit order book); some are as old as antiquity (the single-price call auction). There is a general sense that all markets are heading toward some sort of electronic future, but the speed of progress and convergence varies widely. Today's markets are infused with tensions between efficiency and fairness, competition and regulation, consolidation and fragmentation, speed and stability, and so on. The course is based on a realistic picture of trading.

Mergers, Acquisitions, & Restructuring

FINC-UB 50 2 units.

Prerequisite: FINC-UB 7.

This course presents the theories and empirical evidence on mergers, acquisitions, and restructuring, and analyzes the effects of various policy options on the stock values of acquirer and target companies. Findings about the reaction of stock prices to information on control

transactions are used to analyze the effects of various policy options in such transactions. Topics related to M&A include evaluating acquisition targets, methods of payment in acquisitions, acquisition strategies, the use of leverage in acquisitions and the effects of acquisitions on bond values, major legal issues, case law, and defensive measures against hostile acquisitions. The course combines lecture material, case analysis, quantitative and qualitative analysis, and discussions of relevant news of such transactions. There is an emphasis on fundamental concepts of valuation and other areas of corporate finance related to M&As.

Entrepreneurial Finance

FINC-UB 61 3 units.

Prerequisite: FINC-UB 7.

This course seeks to provide an understanding of the financial and transactional skills required to fund new businesses and mature firms. The course integrates both an academic and practitioner view of the challenges facing entrepreneurs and investors involved in business start-up, venture capital, and private equity investment activities. The course presents frameworks and techniques needed to evaluate high-risk opportunities and structure appropriate investment transactions.

Applications in Entrepreneurial Finance: FinTech

FINC-UB 62 3 units.

Prerequisite: FINC-UB 2.

This course examines the lifecycle of high-growth new ventures (i.e. start-ups) with a focus on how they are funded. Students follow the path of a successful startup from its founding through the stages of new venture finance. These include developing a business plan and its financials, the core skills of valuation, the venture capital industry, and how entrepreneurs and investors realize returns. Through examples of specific companies and technologies, students also learn about the emerging landscape of financial technology (FinTech) start-ups. The course considers the following subsectors, where startups are either seeking to displace incumbents or sell them their services: personal finance, blockchain, equity crowd-funding, lending (peer-to-peer and AI-augmented), payments, insurance, institutional investment, and money transfer.

Hedge Fund Strategies

FINC-UB 66 3 units.

Prerequisite: FINC-UB 7.

This course aims to provide an in-depth understanding of the strategies used by hedge funds, employing a hands-on approach based on case studies and real data. The hedge fund industry has grown rapidly over the last decade aided in part by the private nature of funds and light regulation that has enabled managers to employ strategies not available to traditional fund managers. The course examines critical aspects of hedge fund investment styles including the trading mechanism, risk-return profiles of investment styles, trading costs, risk management, and performance measurement. Strategies covered include event driven strategies, equity, debt, FX, cross-market strategies, global macro, and shareholder activism. Distinguished guest speakers discuss key issues and provide real-life perspectives.

Financial Analysis in EMT

FINC-UB 68 2 units.

Prerequisite: FINC-UB 7. Strongly recommended: ACCT-UB 3.

The course is designed for students who intend to pursue careers across the investment banking industry as well as those exploring careers in marketing, corporate strategy, and management. This course provides analytical tools that reinforce and build upon concepts learned in introductory corporate finance by applying them to recent and ongoing transactions in entertainment, media, and technology (EMT) companies. Areas covered include equity and debt analysis, mergers and acquisitions, and corporate development. Students analyze recent and ongoing transactions in social media, video gaming, online video, cable TV, media, and technology to make the material topical and relevant.

Risk & Insurance

FINC-UB 81 3 units.

Prerequisite: FINC-UB 2.

This course introduces the insurance sector and the roles it plays as a major factor in the financial services arena, starting with risk identification and the risk management process across the economy, and examination of insurance as a systematic and strategic process to pool, transfer, and finance both business and personal risk. Students study the private insurance industry, the underlying financial structure of insurance products, and explore the financial, actuarial, marketing, investment, underwrit-

ing, claims, technology, and regulatory challenges in managing an insurance company. The course looks at the industry financial performance over time, public company valuation metrics, and structuring of acquisitions and capital formation among insurance companies. It also examines distribution channels and marketplace intermediaries, as well as introduces insurance sector career opportunities.

Chinese Financial Markets

FINC-UB 86 3 units.

This course provides students with a comprehensive understanding of Chinese financial markets. It introduces the institutions, instruments, and empirical regularities of Chinese financial markets and the role these markets play in the broader Chinese economy. It focuses on current issues and debates about Chinese financial markets, including the Chinese banking system, RMB exchange rates, Chinese stock and bond markets, mutual and hedge fund industry, Chinese derivative markets, and other important topics. The similarities and differences between Chinese financial markets and more developed markets are highlighted.

Independent Study in Finance

FINC-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

ADDITIONAL COURSES THAT CAN BE TAKEN AS ADVANCED FINANCE ELECTIVES

Financial Modeling & Analysis

ACCT-UB 23 3 units.

Full course description can be found in the Department of Accounting section (page 23).

Financial Statement Modeling
ACCT-GB 6300 3 units.
Full course description can be found in the Department of Accounting section (page 23).

Global Macroeconomic Issues
ECON-UB 230 3 units.
Full course description can be found in the Department of Economics section (page 30).

Macroeconomic Foundations for Asset Prices
ECON-UB 233 3 units.
Full course description can be found in the Department of Economics section (page 30).

The Financial System
MULT-UB 27 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Foundations in FinTech
MULT-UB 80 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Research Seminar in Finance
MULT-UB 210 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Risk & Portfolio Management with Econometrics
MATH-GA 2751 3 units.
This course provides a comprehensive introduction to the theory and practice of portfolio management – the central component of which is risk management. Econometric techniques are surveyed and applied to these disciplines. Topics covered include factor and principal-component models, CAPM, dynamic asset pricing models, Black-Litterman, forecasting techniques and pitfalls, volatility modeling, regime-switching models, and many facets of risk management, both in theory and practice.

Derivative Securities
MATH-GA 2791 3 units.
This course is an introduction to arbitrage-based pricing of derivative securities. Topics covered include arbitrage; risk-neutral valuation; the log-normal hypothesis; binomial trees; the Black-Scholes formula and applications; the Black-Scholes partial differential equation; American options; one-factor interest rate models; swaps, caps, floors, swaptions, and other interest-based derivatives; and credit risk and credit derivatives.

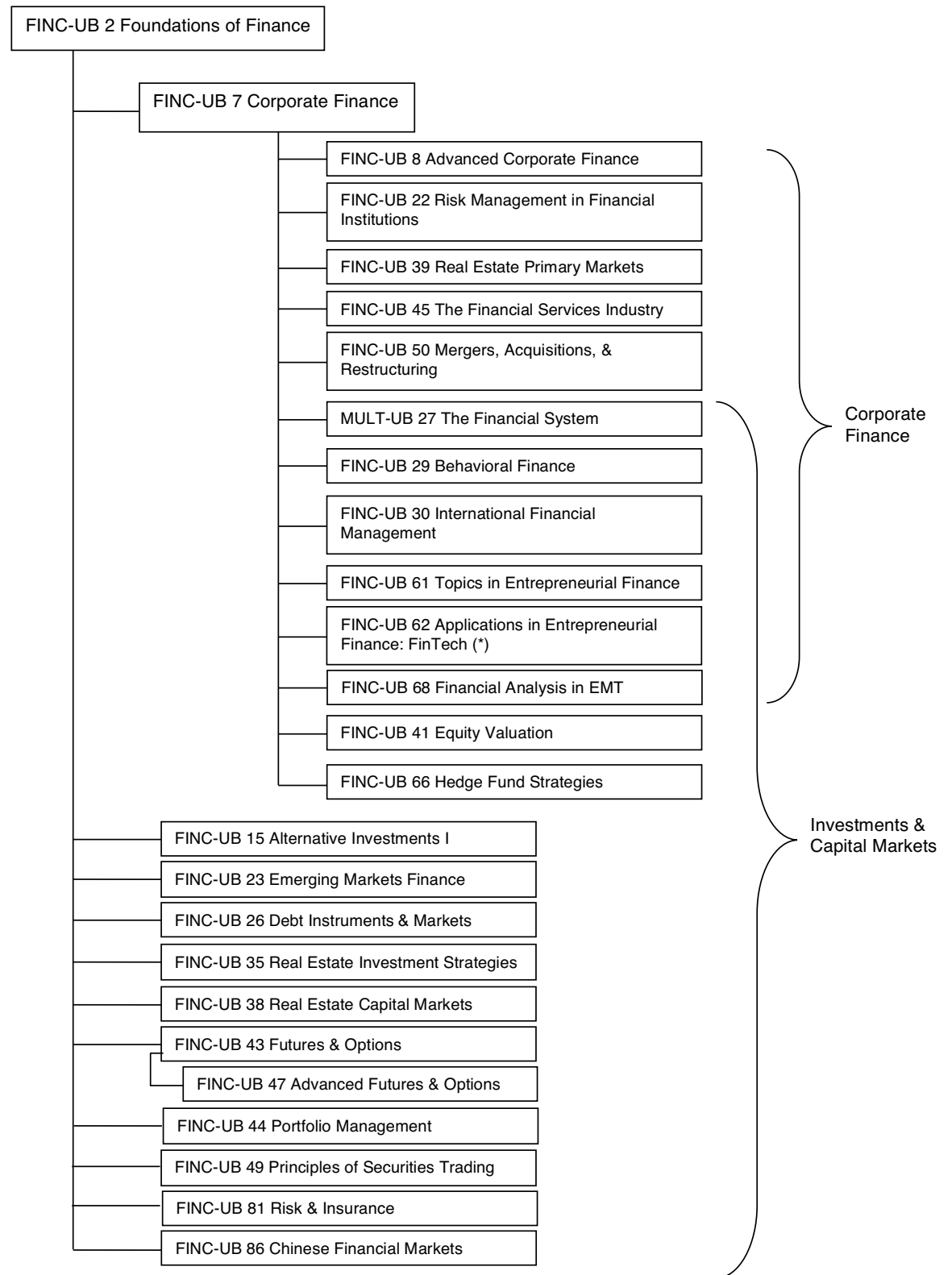
Continuous Time Finance
MATH-GA 2792 3 units. Fall term.
Prerequisites: MATH-GA 2791 and MATH-GA 2902 or equivalents.
This is a second course in arbitrage-based pricing of derivative securities. Students study the Black-Scholes

model and its generalizations, which include equivalent martingale measures, the martingale representation theorem, the market price of risk, and applications such as change of numeraire and the analysis of quantos. The course also covers interest rate models such as the Heath-Jarrow-Morton approach and its relation to short-rate models, and applications including mortgage-backed securities. Other topics include the volatility smile/skew and approaches to accounting for it - underlyings with jumps, local volatility models, and stochastic volatility models.

Students may request a complete list of approved courses from the Undergraduate Advising Office. Courses are reviewed for applicability toward the concentration on an ongoing basis by faculty advisers. Students may also seek out additional courses for review by faculty regarding their applicability toward the concentration. No more than one non-Stern course may be counted toward the concentration.

Note: Requests to take graduate-level courses must be processed through the Stern Undergraduate Advising Office. Please consult an academic adviser for further information.

Advanced Finance Electives Chart



*Foundations of Finance (FINC-UB 2) is the only prerequisite for FINC-UB 62.



Global Business

Program of Study

Understanding the global nature of business activity remains a critical element of business education. With required courses in Economics of Global Business and the International Studies Program, the Stern Undergraduate College curriculum provides students with an excellent introduction to many of the basic principles of international business. Yet, the continued globalization of business suggests that many students can benefit by extending their study of international business beyond the required courses. The substantial global research interest of Stern faculty provides unparalleled opportunity for additional rigorous coursework on international topics. The concentration is most effective when studied in conjunction with an additional Stern concentration. Therefore, students who wish to pursue the Global Business concentration must also complete an additional Stern concentration.

GLOBAL BUSINESS CONCENTRATION REQUIREMENTS (12 UNITS)

**International Business
Management**
MGMT-UB 4

*and one of the following:**

Global Macroeconomics Issues
ECON-UB 230

**International Financial
Management**
FINC-UB 30

Global Marketing Strategy
MKTG-UB 64

**If a student has taken Global Perspectives on Enterprise Systems (ECON-UB 220) in a previous semester, it also satisfies this requirement.*

Plus two electives:

Choose at least one additional Stern course from the approved Stern Global Business electives listed on

the following page or one of the above courses that were not selected to count toward the core of the concentration.

Both additional electives may be taken at Stern, however, it is recommended that students expand their Global Business knowledge by taking one course toward the concentration from outside of Stern in one of the following approved areas:

- Foreign language through the College of Arts & Science: To satisfy the Global Business concentration requirement, a student must take either two 4-unit language courses in the same language (e.g. Elementary French I & Elementary French II) or one intensive 6-unit language course (e.g. Intensive Elementary French).
- Comparative Politics or International Politics through the College of Arts & Science: Any courses numbered as POL-UA 5XX/95XX (Comparative Politics courses taught in New York or at a study away site) or POL-UA 7XX/97XX (International Politics courses taught in New York or at a study away site). For more information regarding these courses, consult the Department of Politics website at as.nyu.edu/politics.
- Certain courses in the following schools/departments have been approved. For a specific list of approved courses, please consult with a member of the Stern Undergraduate Academic Advising Office. As a frame of reference when looking for courses, students should note that appropriate courses are those that have relevance to global business in the 21st century. Courses that center on history or time periods prior to the 21st century or those that primarily focus on the arts (e.g. literature, film, etc.) without relating the subject matter back to its relevance on greater society will most likely not be approved.
 - College of Arts & Science: Social & Cultural Analysis [Africana Studies/Asian, Pacific,

American Studies/Latino Studies/Metropolitan Studies] (SCA-UA), Anthropology (ANTH-UA), Art History (ARTH-UA), East Asian Studies (EAST-UA), Economics (ECON-UA), Environmental Studies (ENVST-UA), European Studies (EURO-UA), French Studies (FREN-UA), German Studies (GERM-UA), Hebrew Language & Literature (HBRJD-UA), Spanish Language & Literature (SPAN-UA), Italian Studies (ITAL-UA), Middle Eastern & Islamic Studies (MEIS-UA), Religious Studies (RELST-UA), Russian & Slavic Studies (RUSSN-UA), Sociology (SOC-UA). For more information, consult the CAS website at cas.nyu.edu.

- Steinhardt School of Culture, Education, & Human Development: Media, Culture, & Communication (MCC-UE). For more information, consult the MCC website at steinhardt.nyu.edu/mcc.
- Wagner School of Public Service: Select courses numbered UPADM-GP. For more information, consult the Wagner website at wagner.nyu.edu/undergrad/minors#sec-SE.
- Students may seek out additional courses for review by the faculty adviser on a case-by-case basis regarding applicability toward the concentration

Note: A Stern elective course may satisfy only one concentration requirement (e.g., International Financial Management can count toward the Global Business concentration requirement OR as an advanced finance elective, but it cannot satisfy both requirements). Refer to page 113 in the Policies & Procedures of the College section of this bulletin for more information about the restrictions on double-counting Stern coursework.

CORE COURSES

Global Perspectives on Enterprise Systems

ECON-UB 220 3 units.

Full course description can be found in the Department of Economics section (page 30).

International Financial Management

FINC-UB 30 3 units.

Full course description can be found in the Department of Finance section (page 36).

International Business Management

MGMT-UB 4 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Global Marketing Strategy

MKTG-UB 64 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Below is a list of Stern courses that would satisfy the required Stern component of the concentration elective requirements.

Asian Economies

ECON-UB 222 3 units.

Full course description can be found in the Department of Economics section (page 30).

Global Macroeconomic Issues

ECON-UB 230 3 units.

Full course description can be found in the Department of Economics section (page 30).

Business in Transition Economies

ECON-UB 231 3 units.

Full course description can be found in the Department of Economics section (page 30).

Emerging Markets Finance

FINC-UB 23 3 units.

Full course description can be found in the Department of Finance section (page 36).

Microfinance

FINC-UB 42 3 units.

Full course description can be found in the Department of Finance section (page 36).

Chinese Financial Markets

FINC-UB 86 3 units.

Full course description can be found in the Department of Finance section (page 36).

Digital Innovation & Crowdsourcing

INFO-UB 70 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Globalization of the Entertainment Industry

MKTG-UB 46 2 units.

Full course description can be found in the Department of Marketing section (page 47).

The Financial System

MULT-UB 27 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Economic Inequalities: Perspectives & Practices

MULT-UB 42 2 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

The Middle East: Culture, Markets, & Strategy

MULT-UB 45 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Social Enterprise & Economic Development: The Indian Context

MULT-UB 223 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).



Management & Organizations (MGMT-UB)

Program of Study

MANAGEMENT CONCENTRATION

Choosing a concentration in management enables students to understand how organizations work in any industry (e.g., financial services, consumer products, new technology), how to make them more effective, how to direct their own careers, as well as collaborate effectively with peers, and ultimately lead those who work for them.

The management course program helps students develop a repertoire of skills to anticipate, address, and resolve the central challenges of running organizations in the 21st century. They learn how to identify and implement the best strategy for a firm. They also examine ways in which people work as individuals, as team members, and as members of an organization.

CAREER PREPARATION

All careers involve the management of individuals and groups. The management program is designed to provide students with both practical

skills and an understanding of the underlying theory that will make them effective individual contributors and managers. Students learn to view the business as a whole, to evaluate the overall needs of an organization (for-profit, not-for-profit, and government), and to define supporting objectives. They develop an outlook that enables them to perceive and anticipate opportunities to innovate and the need for change.

As management always involves people, courses present the most recent theories concerned with human behavior along with current practices that affect and influence behavior in work organizations. The management course program complements the more specialized focus that necessarily characterizes courses in other functional areas. It helps students prepare and succeed in a managerial career that leverages, but is not limited to a functional specialization.

MANAGEMENT CONCENTRATION REQUIREMENTS (12 UNITS)

Students who decide to concentrate in management must take four courses (12 units) in advanced management electives after completing the required core course Management & Organizations (MGMT-UB 1). Some multidisciplinary (MULT-UB) courses have also been approved to count toward fulfilling management concentration requirements. These courses are listed at the end of this section.

Students pursuing a concentration in Management & Organizations should consult with their adviser in the Stern Office of Academic Advising by the end of sophomore year to ensure that course distribution requirements are being met and to formally declare the management concentration. The Department of Management & Organizations undergraduate faculty adviser is always available to advise students on which management courses best fulfill their individual objectives.

Courses

CORE COURSE

Management & Organizations
MGMT-UB 1 4 units. Fall and spring.
Prerequisite: Sophomore standing.
In this course, students attain an understanding of the key factors that contribute to organizational success and the role that managers play in helping their organizations become more successful. Understanding these issues helps students be more effective in their future careers. More specifically, the course explores how organizational leaders develop winning strategies and then design their organizations in a way that aligns structures, social relationships, tasks, human resource practices, and people to achieve those strategies. In exploring these issues, students identify the challenges that organizational leaders and managers encounter as they try to make good decisions in the face of a constantly evolving industry environment, competing goals and agendas, and an increasingly diverse and global workforce.

ADVANCED COURSES

International Business Management
MGMT-UB 4 3 units.
Prerequisites: MGMT-UB 1 and ECON-UB 11.
This course focuses on the strategic and organizational challenges facing the multinational firm. Types of questions addressed in the course include: (1) What are the sources of competitive advantage in a global context? (2) What differentiates a global from a domestic industry? (3) How does/should a multinational operate in these different environments?

Managing People & Teams at Work
MGMT-UB 7 3 units.
Prerequisite: MGMT-UB 1.
This course combines skill-building through experiential exercises with an understanding of the underlying theory to help students learn how to be effective managers and team members in today's technology-enabled team context. Topics include issues such as

managing collaboration in and across teams, motivating effort, performance, social judgment, and cross-cultural issues. Students learn how organizations can improve their effectiveness through better management of people and how individual managers can be more effective in working with and leading others.

Managing Innovation
MGMT-UB 8 3 units.
Prerequisites: MGMT-UB 1 and sophomore standing.
The success of firms, managers, and individual contributors depends on their ability to identify innovative products, processes, or both. Research has shown that managing innovation requires a learning mindset attuned to new experiences, entrepreneurial thinking, and pragmatic leadership. Some of the specific questions considered in this course are: How does design thinking impact the understanding of strategy and organization design? What roles do the project, middle, and senior management play

in the innovation process? How does one decide which ideas are worth pursuing? How do firms choose among multiple attractive innovation projects? What are the best ways to protect a firm's intellectual property?

Managing in Creative Industries

MGMT-UB 9 3 units.

Prerequisite: MGMT-UB 1.

The purpose of the course is to expose students to the dynamics of cultural industries (e.g., art, theater, music, film, photography, architecture, etc.) and to train students to think strategically about the nature of cultural products, including what drives their supply and demand, the factors that affect the value of cultural products, and how firms can profit from them. To address these issues, it is important to understand that a key feature of these industries is that symbolic and aesthetic attributes are at the very core of value creation. This implies that the value of cultural products depends largely on third parties, such as critics, dealers, foundations, and users. Some of these parties act as powerful intermediaries or gatekeepers as they control critical material and symbolic resources firms need to continue to produce cultural products.

Strategic Analysis

MGMT-UB 18 3 units.

Prerequisite: Sophomore standing.

This course emphasizes the need to look outward to the environment and inward to a firm's resources, capabilities, and operating policies. It describes a firm's strategy as the formulation of "competitive strategy", "corporate strategy," and "organizational strategy." Competitive strategy involves identifying structurally attractive industries and developing the most attractive position within that industry—where attractiveness is driven by absolute conditions combined with the resources and capabilities the firm brings to that position. Businesses create value by operating in positions within industries that, by virtue of the characteristics of industry, the position, and the firm, are defensible from the encroachment of competitors and deterioration of the environment as a whole. Corporate strategy focuses on the management and understanding of multi-product, multi-location, and multi-business firms. Organizational strategy involves developing policies within each functional area of the business unit that are integrative and consistent with the firm's plan for creating value.

Managerial Skills

MGMT-UB 21 3 units.

Prerequisite: MGMT-UB 1.

Increasing self-awareness and openness to feedback are important first steps in leading today's business for tomorrow's results. Many companies bestow a management title on key talent and expect appropriate behavior to follow, but that is not the most effective way to develop future business leaders. In this course, students focus primarily on the practical aspects of managing. While based on solid research, the course stresses a hands-on approach to improving students' management skills. Each session focuses on developing (1) personal skills: self-awareness, managing stress, solving problems, and creativity; (2) interpersonal skills: coaching, counseling, supportive communication, gaining power and influence, motivating self and others, and managing conflict; and (3) group skills: empowering, delegating, and building effective teams.

Managing Change

MGMT-UB 25 3 units.

Prerequisite: MGMT-UB 1.

Managing change is a central concern for today's managers as well as the primary focus of the management consulting industry. To effectively manage change, managers need a solid understanding of what change is about, what are its critical aspects, and how one can lead change initiatives in a disciplined and successful way. Case analysis and applied projects are the major vehicles for learning in this course. *Note: This course is particularly relevant for students who plan to pursue careers as general managers or management consultants.*

Managing Family Businesses & Privately Held Firms

MGMT-UB 28 3 units.

Corequisite: MGMT-UB 1.

In this course, students develop an understanding of how privately held firms and family businesses differ from their for-profit competitors. The course consists of four modules, which address the following questions: (1) How does family control affect strategy and management decisions such as diversification, M&As, or financial policies? (2) How can growth in family businesses be managed and financed? (3) What structures and mechanisms can be put in place to manage family dynamics in a productive way? (4) How can succession be managed to ensure continuity in family business systems? (5) How can family ownership and control be transferred from one generation to another? Students who want to pur-

sue a general management, consulting, or finance career have a high probability of working at or with a family-controlled business. Whatever their future role, students will find it useful to understand the uniqueness of these companies, and why they may or may not want to be involved with them.

Negotiation & Consensus Building

MGMT-UB 30 3 units.

Not Applicable toward B.S.-M.S.

Accounting Program.

Effective negotiation and consensus-building skills are essential for success in almost any life domain—whether the goal is to be an entrepreneur, film producer, business manager, or political leader. In this course, students study how people reach agreement and develop an analytical approach for reaching more effective agreements in organizational settings. The course draws from research in psychology and economics to provide academic content, while making use of role-playing exercises and experiential learning to emphasize key applied lessons.

Power & Politics

MGMT-UB 66 3 units.

Prerequisite: MGMT-UB 1.

Politics is not a dirty word! People just need to learn how to play good politics and keep out bad politics. Using the same logic, power by itself does not necessarily corrupt, though absolute power may corrupt absolutely. In other words, this course is about how to conquer the world, or at least how to survive the corporate jungle without losing one's soul. Even those who don't want to play politics, good or bad, need the skills from this course to ensure they don't become a victim of politics. By the end of this course, students will not only have a conceptual understanding of what power is within an organizational context, but also a practical grasp of what the actual sources of power are. They will also have gained substantial insight into how best to harness their political skills for effective management of their chosen career path.

Patterns of Entrepreneurship

MGMT-UB 85 3 units.

Prerequisite: Sophomore standing.

This course offers a framework for understanding the entrepreneurial process and exposes students to challenges, problems, and issues faced by entrepreneurs who start new businesses. Examining case studies is the principal teaching method, supplemented by lectures, business cases, and guest speakers. Students learn to identify and evaluate business oppor-

tunities, develop a business concept and assess and obtain the required resources, and manage the growth of new ventures.

Independent Study in Management

MGMT-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

ADDITIONAL COURSES THAT CAN BE TAKEN AS ADVANCED MANAGEMENT ELECTIVES

Competitive Analysis

ECON-UB 15 3 units.

Full course description can be found in the Department of Economics section (page 30).

Digital Innovation & Crowdsourcing

INFO-UB 70 3 units.

Full course description can be found in the Computing & Data Science section (page 27).

Case Analysis

MULT-UB 5 2 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Game Theory

MULT-UB 20 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Social Impact Consulting

MULT-UB 103 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

The Dynamics of the Fashion Industry

MULT-UB 151 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).



Marketing (MKTG-UB)

Program of Study

Marketing is the functional area that serves as the interface between the firm and its customers. Marketing ensures the firm provides value to the consumer, so that it can achieve its share, revenue, and profit objectives. At the broadest level, marketing is responsible for transforming consumer needs into products and services that the firm can offer profitably and for promoting and delivering those offerings to the marketplace.

Marketing's activities are both strategic and tactical. At the strategic level, marketing bears primary responsibility for determining the product/market choice based on analyses of demand, competition, economics, the firm's own resources, and its ability to secure a competitively defensible position in the marketplace. At the tactical level, marketing creates programs that support development of the marketing strategy and its implementation, such as communication (e.g., advertising, digital and interactive media, direct marketing,

publicity and public relations, personal selling), new product development, pricing and promotion, distribution, quantitative and qualitative research, and analytics.

The undergraduate concentration in marketing gives students the tools essential to creating superior value in the marketplace within marketing-driven businesses.

MARKETING CONCENTRATION REQUIREMENTS (12 UNITS)

Students who wish to concentrate in marketing must take 12 units of marketing courses in addition to the required Business Core course, Introduction to Marketing (MKTG-UB 1). These 12 units include the following courses:

Consumer Behavior
(3 units)
MKTG-UB 2

Research for Customer Insights
(3 units)
MKTG-UB 9

6 units of Advanced Marketing Electives

Students pursuing marketing should consult with their advisers in the Stern Office of Academic Advising during sophomore year to ensure course distribution requirements are being met and to declare the marketing concentration. The Department of Marketing's undergraduate faculty adviser is available to advise on course selection.

Students interested in augmenting their study of marketing research are encouraged to consider a double concentration in marketing and statistics. Refer to page 55 for more information on the statistics concentration.

Courses

CORE COURSE

Introduction to Marketing
MKTG-UB 1 4 units.

Prerequisite: Sophomore standing
This course evaluates marketing as a system for the satisfaction of human wants and a catalyst of business activity. It presents a comprehensive framework that includes: (1) researching and analyzing customers, company, competition, and the marketing environment; (2) identifying and targeting attractive segments with strategic positioning; and (3) making product, pricing, communication, and distribution decisions. Cases and examples are utilized to develop problem-solving abilities.

FUNDAMENTAL COURSES

Consumer Behavior
MKTG-UB 2 3 units.

Prerequisites: MKTG-UB 1.
This course presents a conceptual and practical framework for understanding people as consumers – the basic subject matter of all marketing. The

objective of the course is to understand how consumers think and decide, and to use this knowledge to predict how they will react to company initiatives. Students acquire insights from psychology and sociology that explain how consumers make decisions on their path to purchase and apply this knowledge to strategic marketing problems.

Research for Customer Insights
MKTG-UB 9 3 units.

Prerequisites: MKTG-UB 1 and either STAT-UB 1 or STAT-UB 103 and sophomore standing. *Requires all 6 units of Stern Statistics or STAT-UB 3 for those students who are able to waive out of STAT-UB 1.*

At the heart of every business is the customer. This course helps students gain insight into what consumers want, why they buy, and what influences their choices. Understanding differences among consumers helps managers segment their markets and position their products and services effectively. The course introduces

classic and contemporary data collection techniques such as focus groups, surveys, and experiments. Students learn to analyze qualitative and quantitative data and draw conclusions from analyses to help guide important strategic and tactical decisions such as market selection, product design, digital and traditional media selection, advertising messages, and pricing.

ADVANCED COURSES

All require sophomore standing.

Advertising
MKTG-UB 3 3 units.

Prerequisite: MKTG-UB 1.
This course provides students with a comprehensive framework and tools to understand the advertising process and to appreciate managerial and theoretical perspectives in advertising. It tackles all stages of developing an advertising plan, from analyzing the situation and defining clear advertising objectives to execution. Students

learn tools related to various skill areas in advertising, including account planning, media planning and buying, and copywriting/art direction, while developing a broader appreciation of how each skill area fits into the overall structure of the advertising process. Coursework involves a comprehensive group project that fosters learning in all functional areas of advertising, while simulating the development of an advertising campaign.

Managing Creative Content Development

MKTG-UB 4 2 units.

This course provides students with an opportunity to learn about the individual and collaborative services provided by professional managers, both inside and outside entertainment and media companies. It develops a system by which to evaluate the quality and nature of the services provided and how these services are implemented through collaboration with industry creatives and business executives. Through discussions with and lectures by entertainment and media lawyers, accountants, talent and literary agents, studio executives, producers, and specialists in publicity and advertising, students will understand the diversity of talents and skills required to complete a project successfully. The objectives of the course are to (1) provide an understanding of the executive's role in entertainment and media industries – to assemble a team of creative professionals and manage their activities so that successful content is the outcome; (2) examine the roles and responsibilities of each team member (producer, head of production, studio head, manager/agent, manager/lawyer, business coach, and management consultant); (3) provide an overview of the various disciplines and content genres needed for different industry sectors (e.g., movies, television, music, publishing, electronic games, and theater); (4) provide insight into legal and financial issues specific to the various entertainment and media industry sectors, including basic copyright, intellectual property, and privacy; and (5) review and help students become capable of implementing business plans for funding entertainment projects offered through venture capital, limited partnerships, angels, and other specialists in financial deal-making.

The Business of Publishing

MKTG-UB 19 2 units.

This course provides students with working knowledge of the publishing industry, comprising newspapers, magazines, and books. It explores traditional business models and how disruptive forces including digitalization, consumer-generated content, low barriers to entry, and changing media consumption patterns are reshaping the industry. By the end of the course, students understand the operations of media companies and can speak to the opportunities and challenges facing the publishing industry, engage in discussions on the economics, terms, and metrics, and explain emerging business models.

The Business of Film

MKTG-UB 20 2 units.

This course is designed to provide both business and film students with a systematic overview of the modern-day filmed entertainment business. The course examines the traditional “Hollywood System” operating out of Los Angeles as well as the independent film model, while taking a critical look at the financing, production, marketing, and distribution of filmed entertainment. It focuses on the various revenue streams inherent in the exploitation of films, both in the domestic marketplace and in the international arena and provides students with a keen understanding of how things actually work in the film business. Students gain the basic background and orientation necessary for an entry-level position in a film production or distribution company, an international sales organization, or related support organizations.

Movie Marketing

MKTG-UB 22 2 units.

This course is fast-paced, highly interactive, and designed to give students an overview and basic understanding of all aspects of a movie marketing campaign. The focus is on business decisions with the goal of developing a competitive advantage for a film's theatrical life and beyond. The course examines a range of movies, from low-budget independent to tent pole film franchises, and explores concepts, processes, and different strategic approaches used by today's distributors.

Technology's Impact on Entertainment & Media

MKTG-UB 23 2 units.

Throughout the entertainment and media industry value chain, from content creation to distribution and consumption, technology has changed the way content is funded, produced, distributed, and consumed. This course explores the entertainment and media landscape with a brief introduction to such industries as newspaper, music, radio, gaming, and television, and delves deeper into key strategic and financial threats and opportunities these industries face as technology evolves. Several class sessions will feature guest speakers from relevant sectors.

Arts Marketing

MKTG-UB 24 2 units.

This course is a self-contained introduction to marketing in the arts. It focuses primarily on live performing arts, but also includes museums and galleries. The arts category is rife with change which presents enormous challenges for artists, producers, venue managers, and marketers. In addition, the practice of marketing is changing just as quickly if not more so, and strategy and tactics are at more of a premium than ever. Marketers in arts-related businesses must find a way to flourish in this new world by working smarter, faster, and with greater ingenuity. Students in this class will garner an understanding of the concepts that drive arts marketing, explore the competitive landscape and uncover what leads to a successful arts business, and practically apply coursework toward a project of their own interest.

The Business of Broadway

MKTG-UB 25 2 units.

This course provides a framework for understanding the dynamics of Broadway and live entertainment. The focus is on understanding the development and application of the economics, the structure, implementation and staging of performances, as well as marketing strategies and tactics for gaining audience awareness and attendance. The course examines the steps necessary to stage a successful performance, which include securing rights acquisition, funding, marketing, branding, and product positioning. It covers elements of the history, key venues, business and creative structures, supplementary revenue streams, and the necessary support systems in the industry.

Selling & Sales Management

MKTG-UB 38 3 units.

Prerequisite: MKTG-UB 1.

This course provides students with the knowledge, skills, and understanding of what businesses need to win customers and grow their business. The course uses the consultative selling model to understand the process of selling, including discovery of and alignment with customers' needs, presentation of solutions, overcoming objections, and gaining agreement. Selling is a fundamental life skill, as well as a necessary business skill. Rather than pigeonholing selling as something done by "sales-types," students will look at managing a professional sales force and optimizing the investments made in the organization's interactions with its most important constituents – its customers. The course is interactive and includes discussions, exercises, skill drills, and other opportunities to apply the topics covered. In addition to learning the aspects of contemporary selling as it applies to their careers, students will gain a better appreciation of sales as an important – though often misunderstood – aspect of every organization.

Entertainment & Media Industries

MKTG-UB 40 2 units.

This course provides students with a framework for understanding the economics and key strategic issues facing organizations in the entertainment industry. It establishes a basis for the formulation of marketing tactics and strategies for firms competing for consumers' discretionary spending. Recent developments in major sectors of the entertainment industry are addressed, including movies, television (broadcast and cable), music, theater, and sports. Issues that cut across all types of entertainment industries are examined, including licensing, promotion, and new technologies.

Deal Making in the Entertainment Industry

MKTG-UB 43 2 units.

This course provides students with an understanding of the deal-making and business affairs process in the entertainment space, using film and television content as the primary example for what goes into cutting a deal. The course explores the deal process from the perspective of different players in entertainment and media, focusing on how each player looks to maximize value. The process is evaluated in the context of factors that play into reaching an agreement, such as exclusivity, windowing, multi-platform rights, and timing.

Students learn the process of striking a deal from its inception and term sheet phase, to the negotiation process and contractual agreements, through to deal implementation. Students also study strategies for maximizing value in content deals, identifying common issues in the deal process, and effective paths to reaching resolution and striking a deal.

Television Management: Network, Cable/Satellite

MKTG-UB 44 2 units.

This course examines the television industry, focusing on broadcast, pay TV, over-the-top (OTT), and online streaming. It is a primer on the evolution and current state of the television business, from the birth of the medium through the current atmosphere of disruption and on-demand culture. It is a highly interactive course where students and professor explore organization, programming, and revenue strategies, as well as marketing innovations and competition in the newly configured ecosystem. The recent volume of mergers and new players in television are studied for their impact on the world's most popular and influential form of entertainment.

Social Media Strategy

MKTG-UB 45 2 units.

This course addresses marketing, advertising, and communications strategies in the new media landscape where traditional media (e.g., television, print) and online social media (e.g., online social networks, user-generated content, blogs, forums) co-exist. Students are expected to have knowledge of the fundamentals of traditional advertising methods and strategies. With this background knowledge, the primary focus of the course is on understanding social media, developing social media marketing strategies, and tracking their effectiveness. Students are expected to participate in social media sites as part of the course and must be capable of working publicly with such websites as Facebook, LinkedIn, Instagram, Twitter, YouTube, and others.

Globalization of the Entertainment Industry

MKTG-UB 46 2 units.

This course provides a framework for understanding the global expansion of media and entertainment companies. It examines the economic impact of the significant growth in exports of U.S. leisure products and services, and analyzes the strategies of several leading entertainment and media multinationals as well as the

development of their entertainment businesses within the major world economic zones.

Sports Marketing

MKTG-UB 47 2 units.

This course 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 strategies 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.

The Business of Producing

MKTG-UB 49 2 units.

This course is designed to provide students with a framework for understanding the dynamics of producing as a business from the basics of pitching a creative idea to making it work. The course covers producing for a broadcast network, cable, pay television, and film studios, including content development, creative decisions, talent selection, contract negotiation, regulations, technology, storytelling skills, and other relevant core competencies that are necessary for success as a producer.

Craft & Commerce of Cinema:

Tribeca Film Festival

MKTG-UB 51 2 units.

Prerequisite: Application required.

This is a specialized EMT course designed in coordination with the Tribeca Film Festival board that provides students with a framework for understanding the dynamics of the independent film industry and how producers and directors are able to utilize the infrastructure of the Festival to bring their work to market. Students are selected for this course on the basis of essays, internships, industry work experience, and career focus. In the classroom, students meet with key business and creative executives from the Festival for discussions. The talks and assignments prepare students for film screenings and participation in panels during the two-week period of the Tribeca Film Festival.

Pricing

MKTG-UB 53 3 units.

Prerequisite: MKTG-UB 1.

This course provides students with frameworks, techniques, and the latest thinking on assessing and formulating pricing strategies. The emphasis is on (1) gaining a solid understanding of pricing practices across different industries, (2) learning state-of-the-art frameworks for analyzing pricing issues, and (3) mastering tools and techniques for making strategic and profitable pricing decisions.

Data-Driven Decision-Making

MKTG-UB 54 3 units.

Prerequisite: STAT-UB 103 or STAT-UB 1 and STAT-UB 3.

With recent technological advances and developments in customer databases, firms have access to vast amounts of high-quality data which allows them to understand consumer behavior and customize business tactics to target increasingly fine segments. Much of the promise of such data-driven policies, however, has failed to materialize because managers find it difficult to translate customer data into actionable policies. This course fills this gap by providing students with the tools and techniques used in making business decisions. The emphasis of the class is on applications and interpretation of results for use in making real-life business decisions.

Brand Strategy & Planning

MKTG-UB 55 3 units.

Prerequisites: MKTG-UB 1. In addition to MKTG-UB 1, students interested in this course should have completed two additional advanced marketing courses prior to enrolling.

This course focuses on the three major activities common to the marketing planning process across firms and industries: (1) analysis of market information, (2) development of brand and marketing strategy, and (3) programming of the strategy and implementation of the marketing programs. The unifying framework for these activities is the annual marketing plan. Thus, the course simulates the product/brand/marketing manager's job through the development and implementation of a marketing plan for a particular good or service.

Digital Business Strategy

MKTG-UB 56 2 units.

This course examines digital and online businesses (e.g., consumer electronics, software, video games, media platforms, etc.) from a strate-

gic and marketing perspective. The objectives are to understand how these industries function, the unique challenges they face, and how businesses can leverage their strengths to achieve success in the marketplace. A particular focus is on understanding the interactions among competition, technology, and firm capabilities.

Digital Marketing

MKTG-UB 57 3 units.

Prerequisite: MKTG-UB 1.

This course focuses on enabling students to analyze and develop sophisticated interactive marketing programs. The primary objectives of this course are (1) to introduce students to digital advertising and marketing theories and best practices in digital marketing and (2) to give students the opportunity to apply this knowledge to building or improving the marketer's use of digital media. The course is designed to be a mix of strategic and tactical practice.

The Business of Video Games

MKTG-UB 58 2 units.

Video games are now a mainstream form of entertainment. In economic terms, this industry has experienced tremendous growth, despite a grueling recession, to an estimated \$74 billion worldwide. A key development that has changed the playing field for both producers and consumers of interactive entertainment is a shift away from physical retail to digital and online game distribution. The audience for games has also shifted. No longer the exclusive practice of hardcore gamers, video gaming has gained mass appeal in the form of social and casual gaming on the internet, consoles, and smartphones. At the same time, the development and publishing of games has become far more accessible. The game behind the game, in a manner of speaking, has changed. In this class, students explore the basic components of the current video game industry. Every week, they review major current events, hear from people currently working in the industry, examine case studies, and discuss the overall business landscape. Central to each class is the notion that practical business considerations and the design-driven creative process do not have to be in opposition.

Designing & Developing New Products

MKTG-UB 60 3 units.

Prerequisite: MKTG-UB 1.

For both startups and established companies, new product development is a critical capability, driving customer satisfaction and competitive

advantage. While most companies acknowledge the importance of innovation, many of them struggle to do this effectively. This course provides rich exposure to the tools and techniques used to identify the right new opportunities and create new products, services, or experiences to address them. Through a combination of class discussion, real-world case analysis, and project applications, students explore a holistic approach to new product development, incorporating both quantitative and qualitative perspectives. This exploration will address identifying strategic opportunities, defining target customers, understanding and analyzing customer needs, generating and evaluating concepts, forecasting demand, designing products and services, developing market entry strategies, as well as additional topics. As these topics are explored, students consider multiple approaches and their strengths and weaknesses to help build a thoughtful toolkit.

Launching & Managing New Products

MKTG-UB 61 3 units.

Prerequisite: MKTG-UB 1.

The challenge of managing the introduction of new solutions to customer needs is fundamental in customer-centric markets. This course deals with managing and valuing new products in various industries, with special attention given to information, communication, and the entertainment industry. It examines the notion of disruptive innovations such as the USB PD, and asks the question: to whom exactly are they disruptive? The class also demonstrates the power of social interactions in social networks, and why these interactions cause the growth of new products to be slow, even for successful products such as portable navigation systems. Students ask whether Microsoft paid too much for Skype (a memorable \$8.5 billion) and whether Spotify will ever be profitable; they compute the value of SiriusXM satellite radio's customers and demonstrate the fact that technological substitution is not getting faster, despite perceptions of the generational shift between the adopters of portable CD players in the 1980s and the subsequent generation of MP3 adopters.

Global Marketing Strategy

MKTG-UB 64 3 units.

Prerequisite: MKTG-UB 1.

This course examines challenges specific to entering international markets and conducting marketing operations on an international scale.

Topics include identifying and evaluating opportunities worldwide, developing and adapting market strategies to specific national market needs and constraints, and devising and coordinating global marketing strategies. Emphasis is placed on strategic issues relating to international operations rather than on technical aspects of exporting and importing.

Decision-Making Strategy in Marketing & Management
MKTG-UB 65 3 units.

This course is intended for future marketing managers, industry analysts, and management consultants interested in developing and evaluating marketing and business strategies based on what science reveals about judgment and decision-making. The purpose of this course is to help students understand the decision rules people use and their associated biases so they can incorporate this insight into their business and marketing strategies. The course has two facets. First, it gives students a broad overview of important results from various behavioral sciences (e.g., social and cognitive psychology, behavioral decision research, consumer research) that clarify how people really make decisions. Second, it investigates how these results can be leveraged to design original and more effective marketing and business strategies.

Leisure Marketing
MKTG-UB 80 2 units.

This course is designed to provide students with a framework for understanding the dynamics of marketing in several leading sectors within the leisure industry including casinos, cruise ships, theme parks, ecotourism, themed restaurants, resorts, leisure hotels, and timeshares. The focus is on understanding the development and application of marketing strategies and tactics for leisure companies. Key marketing concepts such as segmentation, branding, life-time value, and CRM are examined in the context of leisure industries. The course explores revenue generation techniques that apply across the leisure companies, including licensing, sponsorships, and line extensions.

Full Stack Fashion
MKTG-UB 82 3 units.

The entire future of the fashion industry will change within the next five years. The retail giants of today will be threatened by collapse under the inexorable expansion of Amazon, massive supply chain-driven brands will continue to crush brands that

cannot deploy capital in the arms race to keep up, and traditional media will continue to be splintered by the new forums, devices, and platforms that will continue to arise. How can brands and retailers compete in this environment? This course offers an analytical approach and a business architecture that proposes a way for brands to completely change their historical seasonal approach to business—which relies on wholesale as a major component—to a real-time approach where companies connect to their customers directly. Wholesale is a vital strategy for branding, not revenue. Seasons are eliminated as designers react and converse in the present with their customers by delivering product to them within days of creation, rather than months. The essence of the full stack approach is to view the business holistically from all points: organizational structure, supply chain, brand, sales, systems, and data. This course takes the student through the current structure of the industry and contrasts it with the new approach. The emphasis is on how small and start-up brands can thrive and out-compete larger brands in these difficult competitive conditions; however, the skills and knowledge gained in this course can be deployed usefully by students looking to join more traditional companies.

Luxury Marketing
MKTG-UB 84 3 units.
Prerequisite: MKTG-UB 1.

This course is designed to provide students with an understanding of the fundamentals of luxury and explores questions such as: When was the concept of luxury first articulated and what does it mean today? How did products, consumer tastes, material exchanges, and producer strategies evolve through history? How has the luxury industry evolved through time and what is at its core? What are the differences between luxury products, brands, markets, and luxury business models? According to a common dictum, a luxury brand is a bridge between the past and the future. By the end of this course students develop (1) an understanding of the luxury segments of a variety of industries (decorative objects, accessories, jewelry, beauty products, hospitality, automotive, fashion), (2) observation skills that allow them to distinguish what constitutes luxury in a product (regardless of industry), (3) the vocabulary necessary to articulate the nuances that differentiate these products and the ability to do so with clarity and precision in terms of technique, design, and materials, and

(4) the critical skills to identify potential new luxury products and how they relate to a variety of markets including emerging markets.

Advanced Luxury Marketing
MKTG-UB 86 2 units.

Prerequisite: MKTG-UB 1.

Building on concepts and business principles discussed in Luxury Marketing, this course is designed to provide students with an understanding of branding and design thinking, and how they are combined to define luxury business strategies. It also completes the discussion on luxury products and brands by demonstrating that branding within the luxury segment of the market is an integral part of business strategy. By the end of this course students develop (1) an understanding of design thinking and strategy and their fundamental role in reinforcing the emotional impact of luxury brands on consumers, (2) a deeper understanding of the luxury segment of the hotel, fashion, beauty, and automotive industries without excluding other product/service groups, (3) analytical skills through hands-on experience and business case analysis, discussion, and presentation, and (4) the critical skills to distinguish faults in business strategies that are not compatible with or contradict the essence of a particular luxury brand.

Retail Management
MKTG-UB 87 3 units.
Prerequisite: MKTG-UB 1.

Retail constitutes over 65% of GDP. It is the last mile of the supply chain. As such, it is useful to all marketing majors (who may ultimately contend with selling products and services through retailers even though they may not directly perform retail functions). Topics covered include types of retail formats, e-commerce (B2C), multi-channel retailing, location analysis, and strategic planning considerations for retailers. Students also explore select internal operations of retailers such as human resources, buying, and planning. These and other concepts are applied to evaluate existing retailers and to understand what subjects to consider in starting a brick and mortar store or B2C website. The learning objectives of this course are: (1) to evaluate an operating retailer or new retail/e-tail concept from a high level strategic and financial perspective as an investor or entrepreneur, (2) to acquaint students with the structure of retail channels and of retailer organizational models, factors in retail strategic decisions, retail/e-tail “Go To Market” considerations regarding brand image, com-

petitive advantages and more, the relationship between mission, merchandising, store design/layout, and the retail communications mix, (3) to demonstrate the importance of understanding company culture, and (4) to understand key concerns buyers typically must address as resellers of CPG, apparel, shoes, and electronics. For students seeking positions with manufacturing or wholesale firms, the course will provide insight into customer decision making, including concerns such as assortment planning, inventory management, gross margin management, and localization. This course also provides an introduction to Retail Math.

Retail Strategy

MKTG-UB 88 2 units.

Prerequisite: MKTG-UB 1.

This course is designed to provide students with an understanding of the forces that shape the retail industry. What are the demographic, economic, competitive, and technological developments that are transforming the marketplace? How do these parameters impact consumer behavior? Consequently, how do they impact the effectiveness of retailers' business models? Retailing is totally reconfigured by new entrants and the use of technology. What defines success for these new entrants and what are their long-term prospects? What defined failure for retailers that once dominated the marketplace? By the end of this course, students develop: (1) an understanding of frameworks used to analyze retailers' positioning, (2) tools to evaluate retail concepts and their performance, (3) an understanding of retail operations and strategy, and (4) an introduction to tools used by equity analysts when valuing/investing in different companies.

Retail Management & Merchandising

MKTG-UB 89 2 units.

Prerequisite: MKTG-UB 1.

In retail today there are new opportunities, but also failures at every turn.

One cornerstone of retail and B2C e-commerce success is having a strong merchandising team. This team of buyers and merchandise planners must be able to identify changes in marketplace trends and their customers' tastes. They must know the magic price for a given product or services, which locations and websites will sell it best, understand when to make it available to the consumer, and buy the right quantity. This course is directed primarily to students whose career goals are in brick and mortar retail and/or e-tail. It is focused on acquainting students with tools used by buyers and planners to address the issues mentioned above. Students will develop an understanding of their role, responsibilities, and interactions in a retail organization and gain a familiarity with the concepts and skills needed to succeed in entry level buying/planning positions and those a level or two higher. Particular focus is placed on fashion merchandising, its supply chain, and on interpreting retail reports to identify opportunities and issues and determine actions.

Independent Study in Marketing

MKTG-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

ADDITIONAL COURSES THAT CAN BE TAKEN AS ADVANCED MARKETING ELECTIVES

Competitive Analysis

ECON-UB 15 3 units.

Full course description can be found in the Department of Economics section (page 30).

Data Analytics in Digital Marketing

INFO-UB 38 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision-Making Under Uncertainty

MULT-UB 16 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Search & the New Economy

MULT-UB 36 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).



Operations (OPMG-UB)

Program of Study

Operations is concerned with the production and delivery of both physical goods and services. Operations may be viewed as an organization's way of aligning global corporate strategy with implementable day-to-day activities and actions. While it is critical to understand how to provide the right capital for the firm, how to promote demand, and how to manage human resources, it is equally important to master the knowledge of how to facilitate production and service delivery and ensure that the corresponding processes are aligned with the overall corporate strategy.

OPERATIONS CONCENTRATION REQUIREMENTS (12 UNITS)

Students who wish to concentrate in operations must take 12 units of operations courses in addition to the required Business Core course Operations Management (OPMG-UB 1). Of the 12 units taken toward the concentration, 6 units must be taken from these courses, however, it is encouraged

that 9 of the 12 units be taken from this list when possible:

Supply Chain Management
OPMG-UB 6

Operations in Financial Services
OPMG-UB 15

Real Estate Development & Entrepreneurship
OPMG-UB 60

Decision Models & Analytics
MULT-UB 7

Decision-Making Under Uncertainty
MULT-UB 16

Pricing & Revenue Analytics
MULT-UB 30

Other courses that can be taken to fulfill the remaining elective requirements:

Data Analytics in Digital Marketing
INFO-UB 38

Digital Innovation & Crowdsourcing
INFO-UB 70

Managing Innovation
MGMT-UB 8

Data-Driven Decision-Making
MKTG-UB 54

Students pursuing the operations concentration should consult with their adviser in the Stern Office of Academic Advising during sophomore year to ensure course distribution requirements are being met and to formally declare the operations concentration. The Department of Operations Management's undergraduate faculty adviser is available to advise on operations course selection or other matters operations students may wish to discuss.

Courses

CORE COURSE

Operations Management
OPMG-UB 1 4 units.
Prerequisites: STAT-UB 103 (or STAT-UB 1 and STAT-UB 3) and sophomore standing.

This course gives students a better understanding of how firms can gain competitive advantage from their operations function. Typically this requires the firm to achieve - at a minimum - cost, quality, and ecological parity; responsiveness and adaptability to customer needs and desires; rapid time to market; process technology leadership; and sufficient and responsive capacity. A problem-solving framework is developed that enables students to undertake managerial and technical analysis that should result in the desired comparative advantage. Both service and manufacturing case examples are utilized.

FUNDAMENTAL COURSES

Supply Chain Management
OPMG-UB 6 3 units.
The function of supply chain management is to design and manage the flow of material and information, starting from the raw materials until finished goods reach customers. Typically, logistics-related costs account for 20-25% of firms' total costs. On the revenue side, the supply chain decisions have a direct impact on market penetration and customer service. With the globalization of the economy and advances in information technology, supply chain design and coordination have become important tools for gaining competitive advantage. Therefore, the objectives of the course are to (1) develop an understanding of individual components of the supply chain (such as order management, transportation, network design, distribution channel management, after-sales service, and customer service strategy) and their

interrelationships with other functions of firms, such as marketing, manufacturing, and accounting; (2) impart analytical and problem-solving skills necessary to develop solutions for a variety of logistics problems; (3) understand the complexity of interfirm and intrafirm coordination in implementing programs such as quick response and vendor-managed inventories; and (4) develop the ability to design logistics systems and formulate integrated supply chain strategy, so that all components are not only internally synchronized but also tuned to fit corporate strategy, competitive realities, and market needs.

Operations in Financial Services
OPMG-UB 15 3 units.
Prerequisite: OPMG-UB 1.
This course focuses on operational issues in financial services. It first goes into operational strategies for various financial services (including

retail banks, investment banks, brokerage houses, and insurance companies). It then discusses the product-process matrix for financial services and covers the operations management of the distribution channels of various products offered by the financial services (checking accounts, trading accounts, credit cards, mortgages, etc.). Such channels include branch networks, ATMs, call centers, and the Internet. The methodologies used in the analysis of the distribution channels include the Data Envelopment Analysis (to do productivity measurements of different branches in a network), priority queuing (to analyze call center behavior), and others. The second half of the course focuses on Total Quality Management and Operational Risk. The methodologies used in Operational Risk analysis include Extreme Value Theory (EVT) to analyze the probabilities of catastrophic events occurring and the measures to mitigate and protect against such events (such as hedging and insurance). This course discusses Operational Risk cases in trading as well as retail banking.

Decision Analytics for Sports
OPMG-UB 54 3 units.

In recent decades more and more sports organizations have reached out to the application of advanced management methods, in particular statistical, data analysis, and operations research/management science techniques. This course is an examination of the most advanced applications of those techniques. The structure of the course is to examine the use of them to four main areas of interest: player performance measurement, in-game decision-making, player selection/team building, and general administration such as marketing, pricing, contracts, and stadium management. Emphasis is placed not only on how the application of analytics has improved each of these situations, but also how those decisions relate to business decisions in any other field of commerce. For example, all businesses have to evaluate employees, make tactical and strategic decisions about how they operate, maintain a

good portfolio of assets (in particular recruit and retain quality employees), and be good at administering the overall business.

Real Estate Development & Entrepreneurship
OPMG-UB 60 3 units.

Prerequisite: Sophomore standing.
 This course introduces students to the broad aspects of real estate development from an entrepreneurial perspective. Operations involves decisions made at the operating level of a business or project to assure the attainment of higher level goals and strategies. In real estate development, these operating decisions can determine whether or not a deal will be successful and meet overall financial goals. Many students may choose to pursue investments in real estate and often actually operate and manage the properties. Although some students will not work full-time in the real estate industry, property investments will arise as opportunities to increase passive income and wealth. Understanding how these deals are created and managed will allow investors to choose deals with the highest probability of success. The real estate topics discussed in the course include all types of development: residential, hotel, office, retail, land, and industrial properties.

Independent Study in Operations
OPMG-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision-Making Under Uncertainty

MULT-UB 16 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Pricing & Revenue Analytics

MULT-UB 30 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

ADDITIONAL COURSES THAT CAN BE TAKEN AS ADVANCED OPERATIONS ELECTIVES

Data Analytics in Digital Marketing

INFO-UB 38 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Digital Innovation & Crowdsourcing

INFO-UB 70 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Managing Innovation

MGMT-UB 8 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Data-Driven Decision-Making

MKTG-UB 54 3 units.

Full course description can be found in the Department of Marketing section (page 47).



Statistics & Actuarial Science (STAT-UB)

Programs of Study

The two concentrations within the department are Statistics and Actuarial Science. Statistics deals with the organization, analysis, and presentation of data. The analysis of large data and social networks is a new branch of statistics receiving much attention within the statistics curriculum. Students who wish to obtain a strong background in statistics should also select a functional area (concentration) to apply statistical reasoning for investigating problems in a designated field. Students interested in pursuing an actuarial career should select the Actuarial Science concentration that focuses on the identification and evaluation of risk. For more information on both concentrations, students should consult the Department of Statistics & Actuarial Science undergraduate faculty adviser.

STATISTICS CONCENTRATION REQUIREMENTS (12 UNITS)

Statistics is the language of science and is used for problem solving. For this reason, it is highly recommended that students concentrating in statistics have a functional area to apply statistical reasoning. Some examples of popular double concentrations include: Statistics and Finance; Statistics and Marketing; Statistics and Economics; and Statistics and Operations.

Students concentrating in statistics should consult with an adviser in the Stern Office of Academic Advising by the end of sophomore year to ensure that course distribution requirements are being met and to formally declare the statistics concentration. The Department of Statistics & Actuarial Science undergraduate faculty adviser is always available to advise on the statistics concentration curriculum or other academic matters including those related to job opportunities. Students interested in augmenting their studies in marketing research are encouraged to consider a double concentration in both marketing and statistics. Students who wish to choose this area of study should meet with the faculty advisers for both

marketing and statistics as well as their academic adviser to discuss how combinations of different courses may impact their chosen career path.

To complete a statistics concentration, a student must take 12 units of statistics courses, which include the following:

Regression & Multivariate Data Analysis*
STAT-UB 17¹

Or

Statistical Inference & Regression Analysis†
STAT-UB 15

Plus any three of the following courses:

Regression & Multivariate Data Analysis*
STAT-UB 17 (if not already selected)

Forecasting Time Series Data*
STAT-UB 18

Applied Stochastic Processes for Financial Models*
STAT-UB 8

Mathematics of Investment†
STAT-UB 27

Introduction to the Theory of Probability†
STAT-UB 14

Statistical Inference & Regression Analysis†
STAT-UB 15

Introduction to Stochastic Processes†
STAT-UB 21

Life Contingencies†
STAT-UB 37

Data Mining & Business Analytics*
INFO-UB 57

Decision Models & Analytics*
MULT-UB 7

ACTUARIAL SCIENCE CONCENTRATION REQUIREMENTS (31 UNITS)

Students concentrating in actuarial science should consult with an adviser in the Stern Office of Academic Advising by the end of sophomore year to ensure course distribution requirements are being met and to formally declare the actuarial science concentration. The Department of Statistics & Actuarial Science undergraduate faculty adviser is always available to discuss actuarial science course selection or other matters students may wish to discuss. Statistics courses count as liberal arts electives.

To complete the actuarial science concentration, students must complete the following courses:

Introduction to the Theory of Probability†
STAT-UB 14

Mathematics of Investment†
STAT-UB 27

Corporate Finance*
FINC-UB 7
(This course from the Department of Finance covers topics that appear on the actuarial examinations. For full course description, refer to the Department of Finance section on page 36.)

* Courses that only require the Business Core at Stern.

† Courses that have additional mathematics and other prerequisite requirements.

¹Effective July 2018 and going forward, the course Regression & Multivariate Data Analysis (STAT-UB 17) can no longer be used to satisfy the actuarial science concentration requirements as an advanced elective. This is due to changes in the Actuarial accreditation requirements for the Society of Actuaries & the Casualty Actuarial Society.

Students who have taken this course prior to fall 2018 will still be permitted to count the course toward the actuarial science concentration and will also be able to satisfy the accreditation requirements of the Actuarial Societies. However, they will not be able to satisfy the Actuarial accreditation requirements of the actuarial societies if they take it during or after the fall semester of 2018.

Calculus I
MATH-UA 121

Calculus II
MATH-UA 122

Calculus III
MATH-UA 123

Linear Algebra
MATH-UA 140

Statistical Inference & Regression
Analysis[†]
STAT-UB 15

Forecasting Time Series Data*
STAT-UB 18

Introduction to Stochastic
Processes[†]
STAT-UB 21

Life Contingencies[†]
STAT-UB 37

* Courses that only require the Business Core at Stern.

† Courses that have additional mathematics and other prerequisite requirements.

Courses

CORE COURSE

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.

Note: This course combines STAT-UB 1 and STAT-UB 3.

This course examines modern statistical methods as a basis for decision making in the face of uncertainty. Topics include probability theory, discrete and continuous distributions, hypothesis testing, estimation, and statistical quality control. With the aid of computers, these statistical methods are used to analyze data. Also presented is an introduction to statistical models and their application to decision making. Topics include the simple linear regression model, inference in regression analysis, sensitivity analysis, and multiple regression analysis.

Or

Statistics for Business Control
STAT-UB 1 4 units.

This course is not to be taken by students who have taken STAT-UB 103.

This course examines modern statistical methods as a basis for decision-making in the face of uncertainty. Topics include probability theory, discrete and continuous distributions, hypothesis testing, estimation, and statistical quality control. With the aid of computers, these statistical methods are used to analyze data.

And

Regression & Forecasting Models
STAT-UB 3 2 units.

This course is not to be taken by students who have taken STAT-UB 103.

Prerequisite: STAT-UB 1 or equivalent. This course presents an introduction to statistical models and their application to decision making. Topics include the simple linear regression model, inference in regression analysis, sensitivity analysis, and multiple regression analysis.

ADVANCED COURSES

Applied Stochastic Processes for Financial Models

STAT-UB 8 3 units.

Prerequisite: STAT-UB 103 or STAT-UB 3.

This course presents a mathematical background for the stochastic processes that are widely employed as modeling tools in finance. The emphasis is on an intuitive approach using examples rather than proofs and mathematical rigor. Topics include random walks, martingales, Markov chains, Poisson processes and other continuous time Markov chains, Brownian motion, geometric Brownian motion, and other diffusion processes. The relevance of the considered processes to financial modeling is stressed throughout. In particular, applications to pricing of derivative securities and to modeling of the term structure of interest rates are discussed.

Introduction to the Theory of Probability

STAT-UB 14 3 units.

Prerequisites: MATH-UA 121, MATH 122, and STAT-UB 103.

This course covers the basic concepts of probability. Topics include the axiomatic definition of probability; combinatorial theorems; conditional probability and independent events; random variables and probability distributions; expectation of functions of random variables; special discrete and continuous distributions, including the chi-square, t, F, and bivariate normal distributions; law of large numbers; central limit theorem; and moment generating functions. The theory of statistical estimation is introduced with a discussion on maximum likelihood estimation.

Statistical Inference & Regression Analysis

STAT-UB 15 3 units.

Prerequisites: MATH-UA 121, MATH-UA 122, MATH-UA 140, and STAT-UB 14.

This course consists of two distinct components: statistical inference and regression analysis. Statistical infer-

ence topics include the principles of statistical estimation and inference, Neyman Pearson Lemma, testing of means, variances, tests of independence, and nonparametric methods. Regression analysis discusses the general linear regression model, least squares estimation, departures from standard assumptions, autocorrelation, multicollinearity, analysis of residuals, choice of variables, and nonlinear models.

Regression & Multivariate Data Analysis

STAT-UB 17 3 units.

Prerequisite: STAT-UB 103 or STAT-UB 3.

This is a data-driven, applied statistics course focusing on the analysis of data using regression models. It emphasizes applications to the analysis of business and other data and makes extensive use of computer statistical packages. Topics include simple and multiple linear regression, residual analysis and other regression diagnostics, multicollinearity and model selection, autoregression, heteroscedasticity, regression models using categorical predictors, and logistic regression. All topics are illustrated on real data sets obtained from financial markets, market research studies, and other scientific inquiries.

Forecasting Time Series Data

STAT-UB 18 3 units.

Prerequisite: STAT-UB 103 or STAT-UB 3.

This course is an exposition of time series and forecasting techniques with emphasis on ideas, methods, and interpretations. Students discuss the determination of the best analytical model for a given problem and the application of this model in the decision-making process for purposes that include description, explanation, and control of time-dependent data. It illustrates all techniques with case studies and uses computer program packages as an aid for obtaining solutions. The major focus is the Box-Jenkins approach to modeling and forecasting time series. Major topics

include model building, model selecting, descriptions of timing and correlation relationships among data sets and forecasting models, estimation, and diagnostic checking. Other topics are seasonal adjustment, exponential smoothing models, state space models, and nonlinear models.

Introduction to Stochastic Processes

STAT-UB 21 3 units.

Prerequisites: MATH-UA 121, MATH-UA 122, and STAT-UB 14.

This is an introductory course in stochastic processes. It presents classes of stochastic processes which are widely used as modeling tools in many fields of application including finance, economics, accounting, and actuarial science. Students learn basic theory of discrete and continuous time Markov chains, Brownian motion and its generalization, and martingales. Also discussed are statistical aspects of these processes. In the final part of the course, students are introduced to the idea of stochastic integration and learn the rules of stochastic calculus. If time permits, the course also considers some stochastic differential equations.

Mathematics of Investment

STAT-UB 27 3 units.

Prerequisites: MATH-UA 121, MATH-UA 122, and FINC-UB 2.
This course discusses the mathematical and technical aspects of invest-

ments. Topics include measurement of interest and discount rates, accumulated value and present value, annuities, sinking funds, amortization of debt, and determination of yield rates on securities. Applications include bond evaluation, mortgages, capital budgeting, and depreciation methods.

Life Contingencies

STAT-UB 37 3 units.

Prerequisites: STAT-UB 14 and STAT-UB 27.

This course applies probability and mathematics of investment to problems of premiums and reserves on annuities and insurance policies. Topics include probabilities of mortality, laws of mortality, joint life probabilities and annuities, and multiple decrement theory. Applications to pension plans are discussed. The course covers an introduction to Markov Chains and Poisson Processes with application to risk management and insurance.

Independent Study in Statistics

STAT-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a reg-

ular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

Data Mining for Business Analytics

INFO-UB 57 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision-Making Under Uncertainty

MULT-UB 16 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).



Sustainable Business (BSPA-UB)

Program of Study

Students pursuing the sustainable business concentration gain a greater understanding of the environmental and social challenges that are shaping business strategy, the current state of sustainable business practice, and how to lead organizations that create economic, social, and environmental value.

Because the topic spans across a wide range of business practices, the co-concentration is designed to be pursued alongside another Stern concentration that provides a more in-depth understanding of a particular area.

SUSTAINABLE BUSINESS CO-CONCENTRATION REQUIREMENTS (12 UNITS)

Students must take a minimum of four courses and earn at least 12 units. Two of the required four courses must be chosen from List A; the other two courses may be chosen either from List A or List B. One of the required four courses must be a practicum ("P") course.

Choose two courses from the following:

LIST A:

Social Entrepreneurship
BSPA-UB 41

Economic Inequality: Perspectives & Practices
BSPA-UB 43

Sustainable Business & the New Economy
BSPA-UB 44

Sustainability for Competitive Advantage
BSPA-UB 38

Social Innovation Practicum (P)
BSPA-UB 70

Experiential Learning Seminar: Social Impact Consulting (P)
BSPA-UB 103

Experiential Learning Seminar: Emerging Technologies in the Energy Industry (P)
BSPA-UB 105

Stern International Volunteers Seminar
BSPA-UB 2000

Law & Business of Social Enterprise*
BSPA-GB 2140

Social Enterprise in Sustainable Food Business (P)*
BSPA-GB 2306

Law, Business, & Human Rights*
BSPA-GB 2331

Global Markets, Human Rights, & the Press*
BSPA-GB 3105

LIST B

Marketing for Impact: Strategies for Sustainable Business
BSPA-UB 51

Health Economics
ECON-UB 140

Business & the Environment
ECON-UB 225

Global Macroeconomics
ECON-UB 230

Global Economic Trends
ECON-UB 240

Social Enterprise & Economic Development: The India Context
MULT-UB 223

Corporate Political Power*
BSPA-GB 2356

Social Venture Capital*
FINC-GB 3148

Investing for the Environment & Social Impact*
FINC-GB 3348

Strategy with Social Purpose*
MGMT-GB 2368

Introduction to Social Impact†
UPADM-GP 102

Introduction to Managing Public Service Organizations†
UPADM-GP 103

The Business of Nonprofit Management†
UPADM-GP 242

Social Entrepreneurship Incubator & Practicum†
UPADM-GP 267

How to Change the World: Advocacy Movements & Social Innovation†
UPADM-GP 269

Financial Management for Global Nonprofit Organizations
PADM-GP 2142

Social Impact Investment†
PADM-GP 2311

Managing Financial & Social Returns of the Social Enterprise†
PADM-GP 2312

**These courses are offered through the Stern MBA program. Students who wish to enroll in these courses are required to submit their request via the MBA Course Request Form provided by the Advising Office. Course descriptions and prerequisites can be found on the Stern MBA website at stern.nyu.edu/portal-partners/registrars/course-information.*

†These courses are offered through the NYU Wagner Graduate School of Public Service. Enrollment in these courses may require approval from the NYU Wagner School. Students may direct inquiries regarding enrollment into these courses through the Stern Advising Office. Course descriptions and prerequisites can be found on the Wagner website at wagner.nyu.edu/education/courses.

Lean Approaches to Social Innovation†
PADM-GP 4311

The Intersection of Finance & Social Justice†
PADM-GP 4313

Environmental Finance & Social Impact†
PADM-GP 4314

Students may seek out additional courses for review by the faculty adviser on a case-by-case basis regarding applicability toward the concentration.

Note: A Stern elective course may satisfy only one concentration requirement (e.g., Health Economics can count toward the sustainable business concentration requirement OR as an advanced economics elective, but it cannot satisfy both requirements). Refer to page 113 in the Policies & Procedures of the College section of this bulletin for more information

about the restrictions on double-counting Stern coursework.

†These courses are offered through the NYU Wagner Graduate School of Public Service. Enrollment in these courses may require approval from the NYU Wagner School. Students may direct inquiries regarding enrollment into these courses through the Stern Advising Office. Course descriptions and prerequisites can be found on the Wagner website at wagner.nyu.edu/education/courses.

Course Descriptions: List A

Social Entrepreneurship *BSPA-UB 41 3 units.*

Prerequisite: Sophomore standing.

Social entrepreneurship is an emerging and rapidly changing business field that examines the practice of identifying, starting, and growing successful mission-driven for-profit and nonprofit ventures - organizations that strive to advance social change through innovative solutions. This course is designed to provide a socially relevant academic experience to help students gain in-depth insights into economic and social value creation across a number of areas including poverty alleviation, energy, health, and sustainability. Essentially, students will have the opportunity to find and test new ideas and solutions to social problems, create sustainable business models (using lean startup principles), identify funding options and alternatives, learn how to measure social impact, and understand how to scale and grow a social enterprise. The course provides students with a toolkit and frameworks that can be used in a social venture or within an existing organization to influence social change.

Economic Inequality: Perspectives & Practices

BSPA-UB 43 3 units.

Prerequisite: Sophomore standing.

This course invites students to consider the causes and consequences of economic inequality from a variety of analytic perspectives, to judge the current situation based on their own ethical values, and to take concrete actions to bring about positive change in the world. The format includes a discussion seminar and two major projects. In the seminar, students become familiar with relevant terms and concepts drawn from disciplines including economics, political science, sociology, organization studies, and philosophy. Informed by these diverse perspectives, students undertake two projects. The first project focuses on the causes and consequences of inequality in the various contexts of individual students' own hometowns. The second project focuses on possible

points of leverage with the market, government, and community sectors, and encourages students to work in groups and use these points of leverage to bring about a more just society. The overall learning objectives are for students to become more familiar with the complexity of economic inequality as an empirical phenomenon, and more empowered to contribute pragmatically to a just society.

Sustainable Business & the New Economy

BSPA-UB 44 3 units.

This course explores the future of sustainability and sustainable business, the role business plays in concentration of money and power, and how "net-positive" business can contribute to a world of greater justice, equity, and wellbeing. The class equips students to be more effective as active contributors to a just, equitable, and regenerative world.

Sustainability for Competitive Advantage

BSPA-UB 68 3 units.

Prerequisite: Sophomore standing.

This course helps students learn what business is expecting from future leaders in a competitive business market where environmental issues, social challenges, and social media transparency require companies to mainstream sustainability into corporate strategy. Students will develop an effective leadership perspective through pursuit of the following learning objectives: (1) become familiar with the key environmental and social issues affecting business decision-making today, (2) understand the evolution of corporate response from compliance to engagement to innovation, (3) develop some of the skills required for leading in this new social and political environment (e.g. multi-stakeholder management), (4) explore the efficiencies and innovations being developed by corporate leaders in pursuit of sustainability, (5) explore innovations in finance (true cost accounting, net positive value, social impact bonds), and (6) become

familiar with the latest consumer insight research on sustainability.

Social Innovation Practicum (P) *BSPA-UB 70 3 units.*

Prerequisite: Sophomore standing.

In recent decades innovation and market-based solutions have increasingly been seen as essential for solving some of the world's most significant social sector problems. Moreover, new social sector problems continue to surface from a rapidly changing world where mega-trends such as climate change and inequality seem uncontrollable. This year's course will focus on the problems of New York City and put the idea of teaching social innovation to its ultimate test—with the objective of developing a variety of tangible and sustainable solutions for some of the greatest urban problems of today's world. The ultimate vehicle for that solution could be a social enterprise, a nonprofit with a sustainable business model, or an add-on to a government agency that has a sustainable element to it. Domains of focus could include healthcare, sanitation, housing, food, energy, and more. Once the semester begins, teams of four to five students are formed and tasked with identifying a problem by engaging in a "Human-Centered" Design Thinking process. While the problem they are looking to solve may be a national one, teams will be encouraged to focus on New York City as their initial market of choice. Through a combination of field observations, interviews, brainstorming, and secondary research, teams will (1) generate insights to identify a problem, (2) analyze the problem, (3) create a prototype solution, and (4) develop a business/economic model to ensure sustainability of the solution. The premise is that through fieldwork, user interactions, iterative design, and immersion in that domain, the foundations of tangible solutions can be built much more naturally.

**Experiential Learning Seminar:
Social Impact Consulting (P)**

BSPA-UB 103 3 units.

Prerequisite: Sophomore standing.

This course is an experiential learning seminar involving project-based collaboration among students, faculty, and nonprofit organizations in New York City. Its two objectives are to provide students with an opportunity to put into practice the lessons learned in the Social Impact Core Curriculum as consultants and to produce project outcomes that have meaning and value for participating stakeholders.

**Experiential Learning Seminar:
Emerging Technologies in the
Energy Industry (P)**

BSPA-UB 105 3 units.

Prerequisite: Sophomore standing.

This course lies at the intersection of two academic streams: Technology & Innovation and the Energy Industry. Specifically, it examines the rapid technological changes that are taking place in the energy industry from an economic, geopolitical, and sociocultural perspective. It covers traditional petroleum-based industries as well as other industries such as solar, nuclear, sand oil, wind, biofuels, and renewable energy. It also examines technological changes in the electricity market including smart grids. As part of the Experiential Learning Seminar, the course requires students to work on projects with New York City-based organizations.

**Stern International Volunteers
Ghana**

BSPA-UB 2000 3 units.

By application only.

SIV Ghana provides a unique educational experience, combining business theory with hands-on implementation and cultural immersion in the country of Ghana. Students study how to design and implement social entrepreneurship and volunteer projects that support long-term economic development. Students then apply their ideas and business knowledge in NYU Stern's "adopted" Ghanaian village, Woadze Tsatoe, over spring break. Social entrepreneurship projects include helping expand three micro-businesses—a batik cooperative, a clean water business, and a mango plantation—incubated by previous SIV Ghana classes. Volunteer projects focus on education, health, water, and agriculture. The overall aim of SIV Ghana is to promote sustainable economic development in the village. During spring break, the entire class travels to Ghana and implements their ideas in the village of Woadze Tsatoe. This will be the fourth year of engagement between SIV Ghana students and the Woadze Tsatoe community.

Full course descriptions and prerequisites for the below courses can be found on the Stern MBA website at stern.nyu.edu/portal-partners/registrar/course-information.

**Law & Business of Social
Enterprise**

BSPA-GB 2140 3 units.

Law, Business, & Human Rights

BSPA-GB 2331 3 units.

**Global Markets, Human Rights, &
the Press**

BSPA-GB 3105 1.5 units.

**Independent Study in Sustainable
Business**

BSPA-UB 94 1 unit.

Independent study provides an opportunity for a select group of upper-classmen each year to work one-on-one with a faculty member on a topic selected by the student and approved by the supervising faculty member. Each student is expected to spend as much time on the independent study as would be spent on a regular course, and the topic selected may not replicate an existing course. An information sheet with important guidelines about Independent Study is available at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Further information regarding the policies surrounding Independent Studies can be found on page 107.

*Course
Descriptions:
List B*

**Marketing for Impact: Strategies
for Sustainable Business**

BSPA-UB 51 3 units.

The American corporate landscape is under assault. The average lifespan for a company in the S&P 500 is shorter than ever, approval ratings for corporations are lower than ever, and consumers are increasingly skeptical of advertising and corporate social responsibility messages that attempt to divert attention from unethical business practices. The ideas of stakeholder theory and shared value are gaining ground and increasingly being seen as necessary constructs for corporations. As part of this, the field of marketing is also undergoing significant change. This course attempts to explore this "new normal," study the evolution of the consumer, and explore what brands, both old and new, are doing and might do to succeed in the years to come. The course relies on a series of cutting edge case studies and real-world projects brought to life by two entrepreneurs—one who is the co-founder of

a leading health food brand and the other who is the cofounder of a leading creative agency.

Health Economics

ECON-UB 140 3 units.

Full course description can be found in the Department of Economics section (page 30).

Business & the Environment

ECON-UB 225 3 units.

Full course description can be found in the Department of Economics section (page 30).

Global Macroeconomics

ECON-UB 230 3 units.

Full course description can be found in the Department of Economics section (page 30).

Global Economic Trends

ECON-UB 240 3 units.

Full course description can be found in the Department of Economics section (page 30).

**Social Enterprise & Economic
Development: The Indian
Context**

MULT-UB 223 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Full course descriptions and prerequisites for the below courses can be found on the Stern MBA website at stern.nyu.edu/portal-partners/registrar/course-information.

Corporate Political Power

BSPA-GB 2356 3 units.

Social Venture Capital

FINC-GB 3148 1.5 units.

**Investing for the Environment &
Social Impact**

FINC-GB 3348 3 units.

Strategy with Social Purpose
MGMT-GB 2368 3 units.

Full course descriptions and prerequisites for the below courses can be found on the NYU Wagner website at wagner.nyu.edu/education/courses.

Introduction to Social Impact
UPADM-GP 102 4 units.

Introduction to Managing Public Service Organizations
UPADM-GP 103 4 units.

The Business of Nonprofit Management
UPADM-GP 242 4 units.

Social Entrepreneurship Incubator & Practicum
UPADM-GP 267 4 units.

How To Change the World: Advocacy Movements & Social Innovation
UPADM-GP 269 4 units.

Financial Management for Global Nonprofit Organizations
PADM-GP 2142 3 units.

Social Impact Investment
PADM-GP 2311 3 units.

Managing Financial & Social Returns of the Social Enterprise
PADM-GP 2312 3 units.

Lean Approaches to Social Innovation
PADM-GP 4311 1.5 units.

The Intersection of Finance & Social Justice
PADM-GP 4313 1.5 units.

Environmental Finance & Social Impact
PADM-GP 4314 1.5 units.



Multidisciplinary Courses

Multidisciplinary courses may count toward multiple concentrations and/or are special-

ized classes that do not neatly fit into a given department. Past course offerings are listed below. Students are encouraged to research the multidis-

ciplinary courses offered each semester on the Stern website and on Albert.

Case Analysis

MULT-UB 5 2 units.

Prerequisite: Sophomore standing.

Counts toward Management concentration and Management Consulting track.

Case methodology is a critical tool for analysts, managers, and entrepreneurs. This course explores how strategic frameworks are applied to high level business problems. Case interviews and case competitions are used as models for learning. Students study the principles behind creating and delivering effective visual slide-based presentations via mock deliveries. Class time focuses on concept lectures and skill-building through individual and group exercises with self-critique. Assignments focus on creating and editing data-based presentations. This course is highly recommended for students who wish to participate in case competitions.

Decision Models & Analytics

MULT-UB 7 3 units.

Prerequisites: STAT-UB 1 or STAT-UB 103 and sophomore standing.

Counts toward Computing & Data Science, Marketing, Management, Operations, and Statistics concentrations. Counts toward Corporate Finance, Business Analytics, Digital Marketing, and Asset Pricing tracks.

This course introduces the basic principles and techniques of applied mathematical modeling for managerial decision making (models used in fields such as finance, operations, and marketing). Students learn the use of important analytical methods (e.g., spreadsheet modeling, using the optimization solver, running Monte Carlo simulations) to recognize their assumptions and to employ them in decision making. Emphasis is placed on model formulation and interpretation of results, not mathematical the-

ory. The course is hands-on and focuses on problem solving. While aimed at undergraduates with little prior exposure to modeling and quantitative analysis, it is appropriate for all students who wish to strengthen their quantitative skills.

Cohort Leadership Program I

MULT-UB 9 0 units. Graded pass/fail.

Required for all first year students.

The challenges of the 21st century are complex and ambiguous and require multidisciplinary expertise and a deep appreciation of human needs and behavior. These challenges cannot be answered through purely analytical methods as their resolutions require exploration and imagining new possibilities. The Cohort Leadership Program (CLP) helps NYU Stern undergraduates build leadership skills crafted for this world and allows them to explore their personal career possibilities in it.

International Studies Program

MULT-UB 11 4 units. Spring.

Prerequisites: SOIM-UB 65,

ECON-UB 11, and junior standing.

The International Studies Program (ISP) is a unique multidisciplinary course encompassing international business and strategy. This program is currently the only one of its kind offered as part of an undergraduate business degree. Taken during spring of junior year, the course seeks to help students understand the diversity of business environments around the world. The course includes a one-week visit to a country in Asia, Europe, or Latin America to experience its business environment and culture firsthand. Students engage in a customized Local Market Immersion, exploring differences in national retail markets. As a key part

of the course, students visit a major corporation based in that country and meet with its executives to understand its business strategy. The course concludes with a major project where students prepare a business plan to strengthen the competitive positioning of the target company.

Decision-Making Under Uncertainty

MULT-UB 16 3 units.

This course introduces the basic concepts, principles, and techniques of decision-making under uncertainty. Students learn how to model complex business problems that involve risk and uncertainty with the help of spreadsheet models. The course covers analytical models such as Decision Tree, Stochastic Optimization, Simulation & Optimization, and Dynamic Optimization. This is a hands-on course with an emphasis on model formulation and interpretation of results, not on mathematical theory.

Game Theory

MULT-UB 20 3 units.

Prerequisite: Sophomore standing.

Counts toward Business Economics and Management concentrations. Counts toward Corporate Finance track.

This course introduces the basics of game theory. It focuses on fundamentals of game theory, covering basic concepts and techniques through a mix of lectures, exercises, and case discussions. Students also think about how the lessons learned may apply to other contexts, such as politics. The course equips students with game theory techniques for making good business decisions by learning how to recognize and model strategic situations and to predict when and how actions will influence the decisions of others.

Law through the Lens of Film

MULT-UB 23 2 units.

Prerequisite: Sopomore standing.

The layman often perceives the law as a mysterious abstraction - something one hears about on a news report about the Supreme Court or in relation to criminal law or perhaps something one hopes to avoid just by not having any traffic violations.

Although law is not always visible in everyday life, it is also not so esoteric as to be beyond the layman's understanding. This course aims to develop a more educated perception of the law so that it becomes less intimidating, and to equip students with a basic level of savvy and analytical ability in relation to law. Over the course of the semester, students watch films and learn to spot legal issues in a variety of scenarios from personal life to business transactions. Discussions then go into how such issues can impact the individuals and entities involved, how they can be resolved, what the ramifications of those issues are in the bigger scheme of society, and what kind of examples actually do exist in both historical and contemporary case law. While this is a Stern course, it is not limited to business law; rather, it is a broad overview of law as viewed through film.

The Financial System

MULT-UB 27 3 units.

Prerequisites: FINC-UB 2 and ECON-UB 11.

Counts toward Business Economics, Finance, and Global Business concentrations. Counts toward Corporate Finance and Asset Pricing tracks.

The financial crisis has shown both how important the financial system is to the global economy and how complicated it is. Financial systems are centered around financial institutions and capital markets, but they also involve governments, public policy, and regulation. They span the globe from the U.S., the EU, and Japan, to Russia, China, and the Emerging Markets. In key areas, country-level financial architectures are integrating to form a more seamless high-performance whole, but this integration also amplifies problems during times of crisis. This course provides students with a broad and rigorous understanding of (1) how the global financial system works and what purposes it serves, (2) who the major players are and how they operate, and (3) what challenges the system creates for public policy. In doing so, the course helps students understand and make the most of their own opportunities in the financial system.

Pricing & Revenue Analytics

MULT-UB 30 3 units.

Prerequisite: OPMG-UB 1.

Counts toward Operations concentration.

Revenue Management and Pricing (RMP) focuses on how firms should manage their pricing and product availability policies across different selling channels to maximize performance and profitability. One of the best-known applications of RMP is yield management whereby airlines, hotels, and other companies seek to maximize operating contribution by dynamically managing capacity over time. For example, American Airlines estimates that its pricing and revenue management practices have generated more than \$1.4 billion in additional incremental revenue over a three-year period. Furthermore, the restless evolution of information technologies and software development have fueled the rapid growth of commercial RMP systems and related consulting services. Through lectures and case studies, the course develops a set of methodologies that students can use to identify and develop opportunities for revenue optimization in different business contexts including the transportation and hospitality industries, retail, media and entertainment, financial services, healthcare, and manufacturing. The course places particular emphasis on discussing quantitative models needed to tackle a number of important business problems including capacity allocation, markdown management, dynamic pricing for ecommerce, customized pricing, and demand forecasts under market uncertainty.

Electronic Communities

MULT-UB 37 3 units.

Counts toward Computing & Data Science and Management concentrations.

An eCommunity is a group of people organized online around a topic or issue. In this course, students are introduced to the landscape of online communities and social networks. Examples and case studies of online communities are discussed and analyzed to identify the characteristics of effective communities and methods for evaluation. Students review and interact with several online platforms used to design, develop, and maintain an online community. Students then use this knowledge to design and/or redesign an online community for a business client. Working in teams with a small business owner or organization leader, students will analyze their online community presence as well as their competitors', and propose and potentially implement a new online community strategy. To pro-

vide cutting edge perspectives, industry professionals are invited to lead class discussions on special topics.

Entrepreneurship 2.0

MULT-UB 39 2 units.

Counts toward Entrepreneurship track.

Entrepreneurship 2.0 studies the process of launching and building a company. Technology and the Internet continue to accelerate rapid innovation that is disrupting most industries and creating many new ones. There has never been a better time to launch a business, and with so many relatively inexpensive technology tools available, most entrepreneurs today are entering markets with a lean, rapid, and agile approach. In short, startups research their market to become "Ready", test their product by firing away ("FIRE"), and use the real market feedback to improve their "Aim". Then they repeat the "Ready-FIRE-Aim" loop until they have the best product-market fit. This course, taught by experienced entrepreneurs, mixes lectures, office hours, case studies, and guest entrepreneur presentations in an interactive and collaborative classroom environment. The students form startup teams to brainstorm business ideas, research and test their products, and create a business summary for a live presentation to the class. Guest entrepreneurs, investors, and the instructor will review students' presentations to provide feedback and direction.

The Middle East: Culture, Markets, & Strategy

MULT-UB 45 3 units.

Counts toward Global Business concentration.

This is an intercession course with a travel component to the UAE. Additional fees apply. Contact the Stern International Programs Office for more detail.

This course provides an introduction to business in the Middle East and North Africa (MENA). It examines key cultural, economic, political, and social structures and trends in the region and explores their implications for business strategies. Students study key events that have shaped the region beginning from the influence of Islam and the control by the Ottoman Empire through the colonial period to today. Issues covered may include political developments in the region such as the recent Arab spring, the Arab-Israeli peace process, the geopolitics of oil, economic development and competitiveness, the business environment, cultural issues, demographic patterns, water and agriculture, and consumption patterns.

Entertainment Law

MULT-UB 48 2 units.

Prerequisite: Sophomore standing.

Counts toward Business of Entertainment, Media, & Technology minor.

Law inevitably touches all fields in some way and mass media and entertainment is no exception. This course examines the inner workings of the entertainment business from a legal perspective. Major topics include contracts, torts (defamation and privacy), and intellectual property. It also focuses on the relationships between various parties in the entertainment field (e.g., the artist, manager, and agent), the protection of intellectual property interests, and various aspects of the recording industry (e.g., contracts and royalties). Ultimately, this course prepares students for general analysis of a wide variety of entertainment law issues. Dealing with more narrow topics, such as constitutional concerns or union representation, requires additional, specialized independent study. This class also helps students further develop their reasoning and communication skills.

Real Estate Transactions

MULT-UB 51 3 units.

Prerequisite: SOIM-UB 6.

Counts toward Real Estate track.

This course examines the legal issues of real estate financing with an emphasis on commercial transactions. The main topics covered are acquisition, development, construction, permanent financing, and management. The course focuses on these topics from a legal perspective and students develop the ability to use legal concepts in real estate transactions. The final part of the course covers some aspects of taxation specific to real estate.

Business Practicum

MULT-UB 71 1 unit.

Internships are a wonderful complement to classroom learning and can be a valuable part of a student's education, especially with the exciting opportunities offered in New York City. The Stern elective course Business Practicum is designed to help students learn leadership and interpersonal skills that will allow them to effectively apply their classroom knowledge to the workplace.

Foundations in FinTech

MULT-UB 80 3 units.

Counts toward Computing & Data Science and Finance concentrations.

FinTech is the label for increasingly technological approaches to main financial intermediation functions: payments, capital raising, remittances, managing uncertainty and risk, market price discovery, and

mediating information asymmetry and incentives. In today's FinTech businesses, consumers bank via mobile apps integrated into social media, institutions trade electronically, and robo advisers make decisions about investment portfolios. This inter-departmental course provides an introduction to the emerging FinTech discipline. It is intended to be the starting point for Stern students who may take additional electives in FinTech while also providing an overview of the area for students who take only one FinTech course.

Entrepreneurship & Law in Practice

MULT-UB 86 2 units.

Prerequisites: MGMT-UB 85 (only if a student wishes to count it as an elective toward the Management concentration) and sophomore standing.

Counts toward Social Entrepreneurship minor and Entrepreneurship track.

The course is designed around two games: the law game and the entrepreneurship game. The law game simulates a civil trial from inception to end. The entrepreneurship game focuses on the legal and financial issues an entrepreneur considers in starting a business. Teams follow the life-cycle of a business they create. Students are encouraged to continue on after the course to create the companies started in the game.

Research Seminar in Finance

MULT-UB 210 3 units.

Prerequisites: FINC-UB 7 and sophomore standing.

Counts toward Finance concentration.

This course is an advanced elective designed to introduce students to the excitement of doing research in the field of finance. The course usually focuses on a sub-category of finance, such as corporate finance, asset management, market microstructure, or other topics dependent upon faculty interest. Students are required to read original research articles and gain an understanding of the research process, which includes the development of testable hypotheses, collection of suitable data, application of appropriate analytic or statistical methodology, and ultimately understanding research findings and their limitations. Deliverables in the course typically include written literature surveys and projects that replicate classic research studies or develop new research ideas. For more information about Research Seminars and other SPUR programming, see page 119.

Social Enterprise & Economic Development: The Indian Context

MULT-UB 223 3 units. Open to juniors and seniors only.

Prerequisite: ECON-UB 1. Corequisite: ECON-UB 11 or equivalent.

This is a course on economic development and the role that private social enterprise (both for-profit and not-for-profit) can play in promoting development. The course has the three-fold goals of (1) introducing students to the academic discipline of human and economic development, (2) focusing on the role of the private sector in promoting development through social enterprise, and (3) utilizing the context of India – one of the oldest and longest living human civilizations. This course includes a one-week trip to India.

Getting to Launch: The Lean Startup Lab

MULT-UB 301 3 units.

Counts toward Social Entrepreneurship minor and Entrepreneurship track.

The very traits common among successful startup founders—a bias toward action, dogged determination, and boatloads of self-confidence—are often the same characteristics that can doom some would-be entrepreneurs to failure. They may fail not because of a bad idea, but because they don't systematically evaluate whether or not there is even a market for their products. Too often they dive into the deep end of the startup pool naively believing, "If I build it, they will come." This course is about minimizing such miscalculations by using an evidence-based approach to launching and growing startups. In this class, students learn: (1) how to get clear confirmation that their concept is well-aligned with customer needs, (2) how to develop a compelling business model capable of creating a competitive advantage, (3) how to rapidly test their venture concept to identify potential flaws and even bigger opportunities, and (4) how to assess a startup's feasibility and viability. While entrepreneurial strategies can be taught, entrepreneurship can't be. Entrepreneurship is learned only by doing and experiencing. For this reason, Getting to Launch: The Startup Lab provides exposure to intense, real-world, hands-on activities associated with developing a potentially game-changing venture.

Business Simulation

MULT-UB 302 2 units.

This course is an introduction to the world of small business and entrepreneurship and helps students understand basic concepts applicable to the operations of any small business. This

is achieved through BizCafé, a business simulation game that requires teams of students to manage the operations of a local café over multiple time periods during which students make cross-functional business decisions, evaluate the outcomes of these

decisions on their business, and then fine-tune their future decisions to improve the efficiency and effectiveness of their business. Over the course of the simulation, students learn business terminology and how to interpret business information as they develop

an understanding of the key functional areas of a business. They also learn to apply business concepts in a dynamic integrative environment.

Executive Practitioner & Experiential Learning Seminars

Executive Practitioner and Experiential Learning Seminars offer eligible students opportunities for meaningful collaborations with practitioners and organizations; to learn first-hand from leading practitioners, entrepreneurs, and top faculty in their fields; and to apply the skills acquired in the classroom to real-world problems.

Each semester new and innovative seminars will be announced prior to the registration period. All courses in this category will be identified as Multidisciplinary (MULT-UB). Some may require application processes or prerequisites. Some may satisfy specific area of study elective requirements while others will count toward Stern elective requirements. Students should consult the Stern Undergraduate Advising Office with any questions.

EXECUTIVE PRACTITIONER SEMINARS

Following is a sample of Executive Practitioner Seminars that have been offered in the past. New courses may be offered each semester.

The Dynamics of the Fashion Industry

MULT-UB 151 3 units.

Prerequisite: Sophomore standing.

Corequisites: FINC-UB 2 and MGMT-UB 1.

Counts toward Management concentration.

The fashion industry is a unique and highly visible part of the business world and New York City is its global capital. The industry's economic impact on New York City is significant, employing more than 173,000 people and generating nearly \$10 billion in wages. In addition, the semi-annual Fashion Week, which includes more than 500 fashion shows

and attracts approximately 232,000 attendees each year, generates almost \$900 million annually. This course brings together leading designers, manufacturers, and retailers who discuss with students the unique aspects of the fashion business. Both established players and entrepreneurial ventures are represented and focus on specific challenges the fashion industry faces in finance, marketing, sales, manufacturing, management, and operations.

EXPERIENTIAL LEARNING SEMINARS

Following is a sample of Experiential Learning Seminars that have been offered in the past. New courses may be offered each semester.

Marketing Social Initiatives in Developing Countries

MULT-UB 101 2 units.

Prerequisite: MKTG-UB 1.

Counts toward Global Business and Marketing concentrations.

There are many social challenges in the developing world, including issues related to health, agriculture, violence against women, education, labor, and the environment. In the healthcare field alone, problems include preventing the spread of AIDS, providing child immunizations, offering family planning guidance, providing breast feeding education, preventing and controlling a range of communicable and non-communicable diseases, curbing drug abuse, and teaching proper diet and nutrition. This project-based course presents a behavioral impact marketing planning process with a focus on integrated communication plans. The projects are "live" and based on current initiatives by governments and

NGOs (e.g. World Health Organization (WHO), UNICEF) in Asia, Latin America, and African countries. Lectures and discussions are augmented by external speakers from the field and students create marketing plans to address social challenges in developing countries.

Fashion Industry: Creativity & Business

MULT-UB 104 3 units.

Prerequisite: Sophomore standing.

Counts toward Management concentration and Entrepreneurship track.

There are many challenges to running a fashion business. Marrying the oftentimes conflicting views and orientations of the creative side of the business with the practical operational realities of making money is one of the largest ones. This course provides students with the opportunity to work on projects with executives, designers, merchandisers, manufacturers, and marketers from leading fashion companies and start-up ventures. Both established players and entrepreneurial ventures are represented and students focus on specific challenges the fashion industry faces in finance, marketing, sales, manufacturing, management, and operations. This is a project-based class during which students learn the ins and outs of the fashion industry through working on "live cases." Projects cover all aspects of the industry and can vary from working with established fashion brands and retailers to helping startups launch their businesses. At the completion of the projects, teams present their analysis and plans to a panel of industry experts who evaluate them based on their thoroughness and value to the companies.



Cross-School Minors

Advanced Mathematical Methods Minor with the College of Arts & Science

ADVANCED MATHEMATICAL METHODS MINOR REQUIREMENT (4 COURSES)

The Advanced Mathematical Methods minor provides students with mathematical tools to handle complex business problems. Most advanced mathematics courses offered in mathematics departments require as prerequisites a complete coverage of calculus up to and including calculus of several variables as well as linear algebra. In today's business world, the most quantitatively demanding projects require not only this level of mathematics, but also a thorough grounding in probability and statistics. This joint minor between CAS and Stern serves these needs by requiring courses in mathematics and numerical methods offered within the Mathematics Department at CAS and courses in probability theory and statistical analysis offered within the Statistics & Actuarial Science Department at the Stern School of Business.

Students are required to take the following courses:

Linear Algebra
MATH-UA 140*

Introduction to the Theory of Probability
STAT-UB 14**

Numerical Analysis
MATH-UA 252

Or

Numerical Methods I
MATH-GA 2010

One course from the advanced course list below:

Statistical Inference & Regression Analysis
STAT-UB 15

Introduction to Stochastic Processes
STAT-UB 21

Ordinary Differential Equations
MATH-UA 262

Partial Differential Equations
MATH-UA 263

Analysis I
MATH-UA 325

COURSES

Calculus III
MATH-UA 123 4 units.
Prerequisite: A grade of C or better in MATH-UA 122 or the equivalent.
Note that this course is not required for the minor, but is a prerequisite for the minor courses.
This course covers functions of several variables: vectors in the plane and space; partial derivatives with applications, especially Lagrange multipliers; double and triple integrals; spherical and cylindrical coordinates; and surface and line integrals.

Linear Algebra
MATH-UA 140 4 units.
Prerequisite: A grade of C or better in MATH-UA 121 or the equivalent.
Students learn systems of linear equations, Gaussian elimination, matrices, determinants, Cramer's rule, vectors, vector spaces, basis and dimension, linear transformations, Eigenvalues, eigenvectors, and quadratic forms.

Introduction to the Theory of Probability
STAT-UB 14 3 units.
Prerequisites: MATH-UA 121 and MATH-UA 122. MATH-UA 103 is also suggested.
Full course description can be found in the Department of Statistics section (page 55).

Statistical Inference & Regression Analysis
STAT-UB 15 3 units.
Prerequisites: MATH-UA 121, MATH-UA 122, MATH-UA 124, and STAT-UB 14.
Full course description can be found in the Department of Statistics section (page 55).

Introduction to Stochastic Processes
STAT-UB 21 3 units
Prerequisites: MATH-UA 121, MATH-UA 122, and STAT-UB 14.
Full course description can be found in the Department of Statistics section (page 55).

Numerical Analysis
MATH-UA 252 4 units.
Prerequisites: MATH-UA 123 and MATH-UA 140 with a grade of C or better.
Students explore how mathematical problems can be analyzed and solved with a computer. As such, numerical analysis has very broad applications in mathematics, physics, engineering, finance, and the life sciences. This course gives an introduction to this subject for mathematics majors. Theory and practical examples using Matlab are combined to study a range of topics ranging from simple root-finding procedures to differential equations and the finite element method.

Numerical Methods I
MATH-GA 2010 3 units.
Prerequisites: A good background in linear algebra and experience writing computer programs (in Matlab, Python, Fortran, C, C++, or another language). Prior knowledge of Matlab is not required, but it is used as the main language for homework assignments.
This course covers floating point arithmetic; conditioning and stability; numerical linear algebra, including direct methods for systems of linear equations, eigenvalue prob-

**Students who have the equivalent of MATH-UA 140 should substitute a more advanced course from the list above.*

***All students must take at least one Stern course in order to meet minor requirements. If a student has completed the CAS version of Probability, STAT-UB 14 should not be taken. Select one of the following instead:*

Statistical Inference & Regression Analysis
STAT-UB 15
or
Introduction to Stochastic Processes
STAT-UB 21

lems, LU, Cholesky, QR and SVD factorizations; interpolation by polynomials and cubic splines; numerical quadrature; nonlinear systems of equations and unconstrained optimization; Fourier transforms; and Monte Carlo methods. Computer programming assignments and individual research projects are an essential part of the course.

Ordinary Differential Equations
MATH-UA 262 4 units.

Prerequisites: MATH-UA 122, MATH-UA 123, and MATH-UA 140.

This course covers first and second order equations, series solutions, and

laplace transforms. It also provides an introduction to partial differential equations and Fourier series.

Partial Differential Equations
MATH-UA 263 4 units.

Prerequisite: MATH-UA 262 with a grade of C or better or the equivalent. Many laws of physics are formulated as partial differential equations. This course discusses the simplest examples, such as waves, diffusion, gravity, and static electricity. Nonlinear conservation laws and the theory of shock waves are discussed as are further applications to physics, chemistry, biology, and population dynamics.

Analysis I

MATH-UA 325 4 units.

Prerequisites: MATH-UA 123 and MATH-UA 140 with grades of C or better or equivalents.

This course focuses on the real number system and convergence of sequences and series. It includes rigorous study of functions of one real variable: continuity, connectedness, compactness, metric spaces, power series, and uniform convergence.

*Business of
Entertainment,
Media, &
Technology Minor
with the
Steinhardt School
of Culture,
Education, &
Human
Development,
and the
Tisch School
of the Arts*

New York City is home to major sectors of the entertainment and media industries, including major media conglomerates, network television, independent film, music, theater, book and magazine publishing, and advertising. This cross-school minor includes courses from Stern School of Business, Tisch School of the Arts, and Steinhardt School of Culture, Education, & Human Development. It provides a foundation in the business aspects of media and entertainment and examines how technology impacts these industries. Students take electives from areas that deepen their knowledge base and understanding of these sectors.

BUSINESS OF ENTERTAINMENT, MEDIA, & TECHNOLOGY (BEMT) MINOR REQUIREMENTS (16 UNITS)

Stern students cannot count a required course from the Business Core or from their concentration toward the minor. All students are required to take 8 units of their minor at Stern. All students must take Entertainment & Media Industries (MKTG-UB 40) as the core requirement plus 6 units of additional electives within Stern from the following list. The remaining 8 units must be taken through either the Steinhardt or Tisch courses listed. A minimum grade of C is required for all courses intended to count toward the BEMT minor and the minimum overall GPA required in the minor is 2.0.

Note: If a course is not listed and a Stern student would like to count it toward his or her minor, the student may submit the request to the Stern Undergraduate College Office of Academic Advising by emailing uc.advising@stern.nyu.edu. The office will

request permission from the BEMT academic director. If the course is approved for the minor and is offered by Tisch (versus Stern), the student must follow procedures for non-majors wishing to take film courses (tisch.nyu.edu/film-tv/course-offering/procedures-for-non-majors).

COURSES

Core Course

Entertainment & Media Industries
MKTG-UB 40 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Note: Students are highly encouraged to take this course first because it serves as a foundation class for the study of this minor. Steinhardt students majoring in Media, Culture, & Communication may take The Business of Media (MCC-UE 1020) instead of MKTG-UB 40, but must still complete 8 units at Stern as part of the minor.

STERN ELECTIVE COURSES

Economics of Media & Entertainment

ECON-UB 120 3 units.

Full course description can be found in the Department of Economics section (page 30).

Economics of Chinese Entertainment Media & Tech

ECON-UB 125 2 units.

Full course description can be found in the Department of Economics section (page 30).

Sports Economics

ECON-UB 211 3 units.

Full course description can be found in the Department of Economics section (page X30).

Financial Analysis in EMT

FINC-UB 68 2 units.

Full course description can be found in the Department of Finance section (page 36).

Data Analytics in Digital Marketing

INFO-UB 38 3 units.

Full course description can be found in the Computing & Data Science section (page 27).

Analytics & the Digital Economy

INFO-UB 44 3 units.

Full course description can be found in the Computing & Data Science section (page 27).

Networks, Crowds, & Markets

INFO-UB 60 3 units.

Full course description can be found in the Computing & Data Science section (page 27).

Managing in Creative Industries

MGMT-UB 9 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Creative Content Development

MKTG-UB 4 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Business of Publishing

MKTG-UB 19 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Business of Film

MKTG-UB 20 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Movie Marketing

MKTG-UB 22 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Impact of Technology on Entertainment & Media

MKTG-UB 23 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Arts Marketing

MKTG-UB 24 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Business of Broadway

MKTG-UB 25 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Deal Making in the Entertainment Industry

MKTG-UB 43 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Television Management

MKTG-UB 44 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Social Media Strategy

MKTG-UB 45 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Globalization of the Entertainment Industry

MKTG-UB 46 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Sports Marketing

MKTG-UB 47 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Business of Producing

MKTG-UB 49 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Craft & Commerce of Film: Tribeca Film Festival

MKTG-UB 51 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Digital Business Strategies

MKTG-UB 56 2 units.

Full course description can be found in the Department of Marketing section (page 47).

The Business of Video Games

MKTG-UB 58 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Leisure Marketing

MKTG-UB 80 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Entertainment Law

MULT-UB 48 2 units.

Full course description can be found in the Multidisciplinary Courses section (page 47).

Tisch Film & Television Elective Courses

See the NYU Tisch website at tisch.nyu.edu/film-tv/course-offering for detailed course descriptions and prerequisites. All non-majors are restricted to section 002 of the listed Tisch courses, with the exception of summer programming.

Language of Film

FMTV-UT 4 4 units.

Producing the Short Screenplay

FMTV-UT 1023 3 units.

Producing for Television

FMTV-UT 1028 3 units. Summer only.

TV Nation: Inside & Out of the Box

FMTV-UT 1086 3 units.

Strategies for Independent Producing

FMTV-UT 1092 3 units.

Film Marketing & Distribution

FMTV-UT 1093 3 units.

Producing for Film

FMTV-UT 1095 3 units.

Legal Aspects of the Entertainment Industry

FMTV-UT 1195 3 units.

Producing for Film & Television

FMTV-UT 1295 3 units. Summer only.

Production Management: Boards & Budgets

FMTV-UT 1296 3 units. Summer only.

Tisch Clive Davis Institute of Recorded Music Elective Courses

Non-Recorded Music majors may request access to these courses in the Clive Davis Institute of Recorded Music by completing the non-major request form at tisch.bsd.net/page/s/remu-non-major-request-form. Enrollment is granted in the order received based upon availability.

Women as Entrepreneurs in Popular Music

REMU-UT 1170 2 units.

Music Contracts & Deal Making

REMU-UT 1223 2 units.

Leadership in the Music Industry

REMU-UT 1225 2 units.

Funding Your Music Venture

REMU-UT 1226 2 units.

The Future of Streaming

REMU-UT 1231 2 units.

Music Licensing Lab

REMU-UT 1241 2 units.

Branding: Sponsorships, Endorsements, Cross-Promotion, & Beyond

REMU-UT 1250 4 units.

Artist Management Lab

REMU-UT 1261 2 units.

The Basics of Social Entrepreneurship

REMU-UT 1269 2 units.

Tisch Drama Elective Courses

Non-Drama majors need permission codes to enroll in drama courses. Students should reach out to the specified contact in the Tisch Drama department indicated on the BEMT form at stern.nyu.edu/portal-partners/current-students/undergraduate/academics/minors to obtain these codes.

Leading & Managing Theater in a Global Context

THEA-UT 685 4 units.

Self-Start: Fundamentals of Artistic Entrepreneurship

THEA-UT 678 4 units.

Steinhardt Music Business Elective Courses

See the NYU Steinhardt website at steinhardt.nyu.edu/music/business for detailed course descriptions and prerequisites.

Business Structure of the Music Industry
MPAMB-UE 100 2 units. Fall and spring.

Note: Business Structure of the Music Industry is a prerequisite for all the following courses listed. Students may enroll in any section marked non-majors.

Global Music Trend Analysis
MPAMB-UE 106 2 units. Fall and spring. (For students abroad at all NYU sites except London, Madrid, and Accra.)

Concert Management
MPAMB-UE 200 2 units. Spring.

Music Publishing
MPAMB-UE 205 2 units. Fall and spring.

International Music Business Marketplace
MPAMB-UE 300 2 units. Fall and spring.

Interactive, Internet, & Mobile Music
MPAMB-UE 1306 2 units. Fall.

Village Records
MPAMB-UE1310 2 units. Fall and spring.
Prerequisite: Junior or senior standing.

Music Business Internship
MPAMB-UE.1320 2 units. Fall, spring, and summer.
Prerequisite: Junior or senior standing.

Steinhardt Media, Culture, & Communication Elective Courses
See the NYU Steinhardt website at steinhardt.nyu.edu/mcc for detailed course descriptions and prerequisites.

Television: History & Form
MCC-UE 1006 4 units.

Film: History & Form
MCC-UE 1007 4 units.

Video Games: Culture & Industry
MCC-UE 1008 4 units.

The Business of Media
MCC-UE 1020 4 units.

Media Audiences
MCC-UE 1016 4 units.

Digital Literacy
MCC-UE 1031 4 units.

Media, Technology, & Society
MCC-UE 1034 4 units.

Media & Globalization
MCC-UE 1300 4 units.

Global Media & International Law
MCC-UE 1304 4 units.

Media & the Culture of Money
MCC-UE 1404 4 units.

Copyright, Commerce, & Culture
MCC-UE 1405 4 units.

The Rise of Internet Media
MCC-UE 1571 4 units.

Marketing for Mass Media
MCC-UE 1785 4 units.

Public Policy & Management Minor With the Wagner Graduate School of Public Service

In today's global society, the interdependencies of the market, community, and state sectors have created a need for individuals who possess a deep understanding of both the public and private spheres. This interdisciplinary minor enables students to:

- Study sector-specific convergence, divergence, and challenges in management practices;
- Examine political influences on local, domestic, and international policy;
- Explore sustainability issues within the sectors; and
- Understand the nuances of effective leadership.

PUBLIC POLICY & MANAGEMENT MINOR REQUIREMENTS (14 UNITS MINIMUM)

All students must complete a minimum of 14 units to satisfy the inter-school minor requirements and must take at least 6 units in each school. Students cannot declare classes counting toward this minor pass/fail. *Stern undergraduate students cannot double-count required Business Core or concentration courses toward this minor.*

All students must take one of the following foundation courses as the core requirement.

Core Courses

Management & Organizations
MGMT-UB 1 4 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

The Politics of Public Policy: City, Nation, & Globe
UPADM-GP 101 4 units.
See the NYU Wagner website at wagner.nyu.edu/education/undergraduate/minors/policy-management for full course description.

Introduction to Managing Public Service Organizations
UPADM-GP 103 4 units.
See the NYU Wagner website at wagner.nyu.edu/education/undergraduate/minors/policy-management for full course description.

Stern Elective Courses

Principles of Financial Accounting*
ACCT-UB 1 4 units.
Full course description can be found in the Department of Accounting section (page 23).

Economic Inequality: Perspectives & Practices
BSPA-UB 43 3 units.
Full course description can be found in the Sustainable Business section (page 58).

Sustainability for Competitive Advantage
BSPA-UB 68 3 units.
Full course description can be found in the Sustainable Business section (page 58).

Social Impact Consulting
BSPA-UB 103 2 units.
Prerequisite: Sophomore standing.
Full course description can be found in the Sustainable Business section (page 58).

Emerging Technologies in the Energy Industry
BSPA-UB 105 3 units.
Prerequisite: Sophomore standing.
Full course description can be found in the Sustainable Business section (page 58).

Stern International Volunteers
BSPA-UB 2000 3 units.
By application only. Seniors not eligible.
Full course description can be found in the Sustainable Business section (page 58).

Business & the Environment
ECON-UB 225 3 units.
Full course description can be found in the Department of Economics section (page 30).

**This course may not be taken by Stern students to satisfy minor requirements.*

Management & Organizations*
 MGMT-UB 1 4 units.
This course can be taken as an elective if it was not chosen as the foundation course.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Managing People & Teams at Work
 MGMT-UB 7 3 units.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Strategic Analysis
 MGMT-UB 18 3 units
 Full course description can be found in the Department of Management & Organizations section (page 44).

Managerial Skills
 MGMT-UB 21 3 units.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Change
 MGMT-UB 25 3 units.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Negotiation & Consensus Building
 MGMT-UB 30 3 units.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Power & Politics
 MGMT-UB 66 3 units.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Introduction to Marketing*
 MKTG-UB 1 4 units.
 Full course description can be found in the Department of Marketing section (page 47).

Wagner Graduate School of Public Service Elective Courses
 See the NYU Wagner website at wagner.nyu.edu/education/undergraduate/minors/policy-management for detailed course descriptions and prerequisites.

Introduction to Social Impact
 UPADM-GP 102 4 units.

The Economics of Public Policy
 UPADM-GP 140 4 units.

The Politics of New York
 UPADM-GP 215 4 units.

The Meaning of Leadership
 UPADM-GP 221 4 units.

Philanthropy, Advocacy, & Social Change
 UPADM-GP 224 4 units.

Leadership: Women & Public Policy
 UPADM-GP 226 4 units.

Topics in Health: Policy, Politics, & Power
 UPADM-GP 236 4 units.

The Business of Nonprofit Management
 UPADM-GP 242 4 units.

Public Policy & the Arts
 UPADM-GP 263 4 units.

How to Change the World: Advocacy Movements & Social Innovation
 UPADM-GP 269 4 units.

Intelligence & National Security Policymaking
 UPADM-GP 430 4 units.

**This course may not be taken by Stern students to satisfy minor requirements.*

Social Entrepreneurship Minor With the Wagner Graduate School of Public Service

Social entrepreneurs are transforming the business and societal landscape by applying business discipline and principles to confront some of the world's most intractable problems. Whether it's ensuring clean water, addressing illiteracy, preventing human rights abuses, bringing economic development initiatives to poor communities, or providing access to healthcare, social entrepreneurs are at the forefront offering sustainable, business-based solutions to meet these and other critical challenges.

Students take a carefully chosen selection of Wagner and Stern course options that explore the concept of students as "changemakers."

SOCIAL ENTREPRENEURSHIP MINOR REQUIREMENTS (14 UNITS MINIMUM)

All students must complete a minimum of 14 units to satisfy the inter-school minor requirements and must take at least 6 units in each school. The inter-school minimum minor requirements include: an introductory course, a practicum course, and at least two additional courses (one from each school). *Stern undergraduate students cannot double-count required Business Core or concentration courses toward this minor.*

See the NYU Wagner website at wagner.nyu.edu/undergrad/minors/entrepreneur for detailed course descriptions and prerequisites for UPADM-GP courses.

All students must choose at least one Introductory Core Course from the following list as a core requirement.

Social Entrepreneurship
 BSPA-UB 41 3 units.
 Full course description can be found in the Sustainable Business section (page 58).

Fundamentals of Social Entrepreneurship: Problem Solving & Integration
 UPADM-GP 265 4 units.

All students must choose at least one Practical Course from the following list as a core requirement.

Social Innovation Practicum
 BSPA-UB 70 3 units.
 Full course description can be found in the Sustainable Business section (page 58).

Getting to Launch: The Lean Startup Lab
 MULT-UB 301 3 units.
 Full course description can be found in the Multidisciplinary Courses section (page 62).

Practicum in Social Entrepreneurship
 UPADM-GP 267 4 units.

All students must choose at least two courses from the following list of Stern and Wagner electives (one from each school).

Economic Inequality: Perspectives & Practices
 BSPA-UB 43 3 units.
 Full course description can be found in the Sustainable Business section (page 58).

Sustainable Business & the New Economy
 BSPA-UB 44 3 units.
 Full course description can be found in the Sustainable Business section (page 58).

Sustainability for Competitive Advantage

BSPA-UB 68 3 units.

Full course description can be found in the Sustainable Business section (page 58).

Social Impact Consulting

BSPA-UB 103 3 units.

Full course description can be found in the Sustainable Business section (page 58).

Stern International Volunteers Ghana

BSPA-UB 2000 3 units.

Full course description can be found in the Sustainable Business section (page 58).

Sustainability Impact Consulting in Costa Rica

BSPA-UB 45 3 units.

Full course description can be found in the Sustainable Business section (page 58).

Management & Organizations

MGMT-UB 1 4 units.

Stern students may not count this course toward the minor.

Full course description can be found in the Department of Management & Organizations section (page 44).

Managing People & Teams

MGMT-UB 7 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Change

MGMT-UB 25 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Patterns of Entrepreneurship

MGMT-UB 85 3 units.

Full course description can be found in the Department of Management & Organizations section (page 44).

Entrepreneurship for the New Economy

MULT-UB 40 2 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Entrepreneurship & Law in Practice

MULT-UB 86 2 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Emerging Technologies in the Energy Industry

MULT-UB 105 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

The Politics of Public Policy

UPADM-GP 101 4 units.

Introduction to Social Impact

UPADM-GP 102 4 units.

Sustainable Urban Development

UPADM-GP 217 4 units.

Philanthropy & Social Change

UPADM-GP 224 4 units.

The Business of Nonprofit Management

UPADM-GP 242 4 units.

Practicum in Social Entrepreneurship

UPADM-GP 267 4 units.

If not taken as a practical requirement.

See the NYU Wagner website at wagner.nyu.edu/undergrad/minors/entrepreneur for detailed course descriptions and prerequisites for all UPADM-GP courses.



Tracks

Tracks were developed by a committee of Stern faculty to provide students with a roadmap of coursework to help them develop both intellectually and professionally in areas of interest that cross traditional disciplines.

Tracks are designed to be multidisciplinary, in-depth, and supplemental to students' business majors and concentration(s). Completion of a track is not noted on a student's transcript.

A track consists of a set of approximately eight courses and includes a progression of three types of courses:

- Prerequisite courses,
- Essential courses, and
- Advanced electives.

Each track has a Track Champion dedicated to developing and monitoring the track curriculum, advising students, and facilitating their professional development.

Asset Pricing Track

The Asset Pricing track provides rigorous training in (1) the pricing/valuation of financial instruments, including corporate, fixed income and derivative securities; (2) investment strategies, including performance evaluation and portfolio theory; and (3) the workings of capital markets, including the various participants in these markets their roles, and the regulatory environment. Elective courses can be chosen to emphasize macroeconomic foundations, empirical methods, or quantitative finance. With an appropriate choice of elective courses, this track provides in-depth preparation for careers in asset management, sales and trading, fixed income and equity research, credit analysis, private equity, private wealth management, insurance, global finance (e.g., IMF, World Bank), central banking, regulation (e.g., SEC), economic consulting and policy, as well as graduate school in finance or economics.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Asset Pricing track:

Principles of Financial Accounting
ACCT-UB 1

Microeconomics
ECON-UB 1

Statistics for Business Control
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103

Introduction to Probability Theory
STAT-UB 14

Mathematics for Economists
ECON-UA 6

Or

Calculus II
MATH-UA 122

And

Linear Algebra
MATH-UA 140

ESSENTIAL COURSES

Foundations of Finance
FINC-UB 2

Corporate Finance
FINC-UB 7

The Financial System
MULT-UB 27

Statistical Inference & Regression Analysis
STAT-UB 15

Or

Introduction to Econometrics
ECON-UA 266

ADVANCED ELECTIVES

Four courses from the following list including at least two Investments electives*:

Any Finance elective
For course listings, see the Department of Finance section (page 36).

Financial Modeling & Analysis
ACCT-UB 23

Global Macroeconomic Issues
ECON-UB 230

Macroeconomics Foundations for Asset Prices
ECON-UB 233

Advanced Topics in Modern Macroeconomics
ECON-UB 234

Econometrics I
ECON-GB 3351 (Instructor permission required.)

* Investments Electives are FINC-UB 15, FINC-UB 23, FINC-UB 26, FINC-UB 29, FINC-UB 30, FINC-UB 35, FINC-UB 38, FINC-UB 41, FINC-UB 43, FINC-UB 49, FINC-UB 61, FINC-UB 66, FINC-UB 81, FINC-UB 86 and MULT-UB 80.

Design & Development of Web & Mobile Apps
INFO-UB 22

Introduction to Programming & Data Science
INFO-UB 23

Analytics & the Digital Economy
INFO-UB 44

Data Mining for Business Analytics
INFO-UB 57

Decision Models & Analytics
MULT-UB 7

Decision Making Under Uncertainty
MULT-UB 16

Trading Strategies & Systems
MULT-UB 35

Forecasting Time Series Data
STAT-UB 18

Introduction to Stochastic Processes
STAT-UB 21

Analysis I
MATH-UA 325

Stochastic Calculus
MATH-GA 2902

Introduction to Computer Programming
CSCI-UA 2

Or

Introduction to Computer Science
CSCI-UA 101

Or

Data Structures
CSCI-UA 102

OR

Numerical Analysis
MATH-UA 252

Or

Numerical Methods I
MATH-GA 2010

Courses

PREREQUISITES

Principles of Financial Accounting
ACCT-UB 1 4 units.
Full course description can be found in the Department of Accounting section (page 23).

Microeconomics
ECON-UB 1 4 units.
Full course description can be found in the Department of Economics section (page 30).

Statistics for Business Control
STAT-UB 1 4 units.
Full course description can be found in the Department of Statistics section (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.
Full course description can be found in the Department of Statistics section (page 55).

Introduction to Probability Theory
STAT-UB 14 3 units.
Full course description can be found in the Department of Statistics section (page 55).

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.
Full course description can be found in the Department of Statistics section (page 55).

Mathematics for Economists
ECON-UA 6 4 units.
Open to first year students and sophomores only.
Full course description can be found in the Department of Economics section (page 30).

Calculus II
MATH-UA 122 4 units.
Prerequisite: MATH-UA 121.
Calculus II is a second semester calculus course for students who have previously been introduced to the basic ideas of differential and integral calculus. Over the semester students study three topics that form a central part of the language of modern science: applications and methods of integration, infinite series and the representation of functions by power series, and parametric curves in the plane. Students not only develop their computational ability in this course, but also learn how the material of this course is applicable in natural scientific contexts.

Linear Algebra
MATH-UA 140 4 units.
Full course description can be found on page 66.

ESSENTIAL COURSES

Foundations of Finance
FINC-UB 2 4 units. Fall, spring, and summer.
Full course description can be found in the Department of Finance section (page 36).

Corporate Finance
FINC-UB 7 3 units. Fall, spring, and summer.
Full course description can be found in the Department of Finance section (page 36).

The Financial System
MULT-UB 27 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Statistical Inference & Regression Analysis
STAT-UB 15 3 units.
Full course description can be found in the Department of Statistics section (page 55).

Introduction to Econometrics
ECON-UA 266 4 units.
Prerequisites: MATH-UA 212 or equivalent and STAT-UB 103 or STAT-UB 1 and STAT-UB 3.
This course covers application of statistics and economic theory to problems of formulating and estimating models of economic behavior. Matrix algebra is developed as the main tool of analysis in regression. Students become acquainted with basic estimation theory and techniques in the regression framework and cover extensions such as specification error tests, heteroskedasticity, errors in variables, and simple time series models. An introduction to simultaneous equation models and the concept of identification is provided.

ADVANCED ELECTIVES

Financial Modeling & Analysis
ACCT-UB 23 3 units.
Full course description can be found in the Department of Accounting section (page 23).

Global Macroeconomic Issues
ECON-UB 230 3 units.
Full course description can be found in the Department of Economics section (page 30).

Macroeconomics Foundations for Asset Prices
ECON-UB 233 3 units.
Full course description can be found in the Department of Economics section (page 30).

Advanced Topics in Modern Macroeconomics

ECON-UB 234 3 units.

Full course description can be found in the Department of Economics section (page 30).

Econometrics I

ECON-GB 3351 3 units.

Prerequisite: Permission of instructor.

This course focuses on the theory of estimation and inference in econometrics. It covers finite sample results for the classical linear model as well as asymptotic results for single equation models. Topics include linear and nonlinear least squares, generalized least squares, panel data, instrumental variable techniques, and generalized method of moment estimation. Heavy emphasis is placed on empirical application.

Design & Development of Web & Mobile Apps

INFO-UB 22 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Introduction to Programming & Data Science

INFO-UB 23 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Analytics & the Digital Economy

INFO-UB 44 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Data Mining for Business Analytics

INFO-UB 57 3 units.

Full course description can be found in the Department of Computing & Data Science section (page 27).

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision-Making Under Uncertainty

MULT-UB 16 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Trading Strategies & Systems

MULT-UB 35 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Forecasting Time Series Data

STAT-UB 18 3 units.

Full course description can be found in the Department of Statistics section (page 55).

Introduction to Stochastic Processes

STAT-UB 21 3 units.

Full course description can be found in the Department of Statistics section (page 55).

Analysis I

MATH-UA 325 4 units.

Full course description can be found on page 67.

Stochastic Calculus

MATH-GA 2902 4 units.

Prerequisites: ECON-UA 6 and ECON-UA 20.

This is a course on the mathematical analysis of stochastic processes. It uses some modern measure theoretic terminology, but is not mathematically rigorous. The course begins with discrete probability and Markov Chains and then moves on to continuous time Brownian motion and diffusion processes. The bulk of the class is devoted to stochastic integration, the Ito calculus, and the relation between partial differential equations and diffusion processes. This course also discusses the derivation of diffusion models and approximations.

Introduction to Computer Programming

CSCI-UA 2 4 units.

Prerequisite: Three years of high school mathematics or equivalent. No prior computing experience is assumed.

This course serves as an introduction to the fundamentals of computer programming which is the foundation of computer science. Students design, write, and debug computer programs.

Introduction to Computer Science

CSCI-UA 101 4 units. Fall and spring.

Prerequisite: CSCI-UA 2.

In this course, students learn how to design algorithms to solve problems and how to translate these algorithms into working computer programs. Experience is acquired through programming projects in a high-level programming language.

Data Structures

CSCI-UA 102 4 units. Fall and spring.

Prerequisites: CSCI-UA 2 and CSCI-UA 101.

This course covers the use and design of data structures, which organize information in computer memory. Students learn stacks, queues, linked lists, and binary trees, how to implement them in a high-level language, how to analyze their effect on algorithm efficiency, and how to modify them.

Numerical Analysis

MATH-UA 252 4 units.

Full course description can be found on page 66.

Numerical Methods I

MATH-GA 2010 3 units.

Full course description can be found on page 66.

Note: Students must fulfill all required prerequisites for any course listed.

Requests to take graduate-level courses must be processed through the Stern Undergraduate Advising Office. Please consult an academic adviser for further information.

Business Analytics Track

The Business Analytics track is designed to expose students to the skills, methods, and practices that are useful for data-driven decision-making. This multidisciplinary field has strong roots in computer science, information science, mathematics, operations, and statistics. Topic areas include data organization and management, computer programming, data mining and machine learning, optimization, and statistical methods used to both investigate past business

performance and predictively model future performance. This track provides preparation for careers in a wide range of fields at companies that are committed to the use of data to gain insights about their business (including consulting, entrepreneurship, financial services, marketing, risk management, sales, social media, and technology), as well as graduate school in the social sciences.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Business Analytics track:

Calculus I or higher
MATH-UA 121

Statistics for Business Control
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

**Statistics for Business Control and
Regression & Forecasting Models**
STAT-UB 103

ESSENTIAL COURSES

**Introduction to Programming for
Data Science**
INFO-UB 23

**Data Mining for Business
Analytics**
INFO-UB 57

**Regression & Multivariate Data
Analysis**
STAT-UB 17

ADVANCED ELECTIVES

Four courses from the following list,
including at least two of the four cat-
egories indicated:

Mathematics

Discrete Mathematics
MATH-UA 120

Calculus II
MATH-UA 122

Linear Algebra
MATH-UA 140

Statistics

Forecasting Time Series Data
STAT-UB 18

Computing & Data Science

**Data Analytics in Digital
Marketing**
INFO-UB 38

Operations Management

Decision Models & Analytics
MULT-UB 7

Courses

PREREQUISITES

Calculus I
MATH-UA 121 4 units.
Full course description can be found
on page 14.

Statistics for Business Control
STAT-UB 1 4 units.
Full course description can be found
in the Department of Statistics sec-
tion (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.
Full course description can be found
in the Department of Statistics sec-
tion (page 55).

**Statistics for Business Control and
Regression & Forecasting Models**
STAT-UB 103 6 units.
Full course description can be found
in the Department of Statistics sec-
tion (page 55).

ESSENTIAL COURSES

**Introduction to Programming for
Data Science**
INFO-UB 23
Full course description can be found
in the Department of Computing &
Data Science section (page 27).

**Data Mining for Business
Analytics**
INFO-UB 57 3 units.
Full course description can be found
in the Department of Computing &
Data Science section (page 27).

**Regression & Multivariate Data
Analysis**
STAT-UB 17 3 units.
Full course description can be found
in the Department of Statistics sec-
tion (page 55).

ADVANCED ELECTIVES

Discrete Mathematics
MATH-UA 120 4 units.
*Prerequisite: A grade of C or better in
MATH-UA 121 or the equivalent.*
This course serves as the first in dis-
crete mathematics. It covers sets,
algorithms, induction combinatorics,
graphs and trees, combinatorial cir-
cuits, and logic and Boolean algebra.

Calculus II
MATH-UA 122 4 units.
Full course description can be found
on page 73.

Linear Algebra
MATH-UA 140 4 units.
Full course description can be found
on page 66.

Forecasting Time Series Data
STAT-UB 18 3 units.

Full course description can be found
in the Department of Statistics sec-
tion (page 55).

**Data Analytics in Digital
Marketing**
INFO-UB 38 3 units.
Full course description can be found
in the Department of Computing &
Data Science section (page 27).

Analytics & the Digital Economy
INFO-UB 44 3 units.
Full course description can be found
in the Department of Computing &
Data Science section (page 27).

Decision Models & Analytics
MULT-UB 7 3 units.
Full course description can be found
in the Multidisciplinary Courses sec-
tion (page 62).

*Although it is not formally part of the
Business Analytics track, students in this
track may benefit from also taking courses
listed in the Digital Marketing track (see
page 78) such as Networks, Crowds, &
Markets (INFO-UB 60).*

**Note: Students must fulfill all
required prerequisites for any
course listed.**
*Requests to take graduate-level courses
must be processed through the Stern
Undergraduate Advising Office. Please
consult an academic adviser for further
info.*

*Corporate Finance
Track*

The Corporate Finance track provides
rigorous training in (1) corporate
financial decision-making including
value creation, corporate governance,
and agency issues; and (2) the mar-
kets for corporate claims and corpo-
rate control including the role of
financial intermediaries. Elective

courses can be chosen to emphasize
financial management and reporting,
entrepreneurship, banking, or inter-
national issues. With an appropriate
choice of elective courses, this track
provides in-depth preparation for
careers in investment banking, pri-
vate equity, venture capital, equity

research, credit analysis, corporate
treasury, financial consulting, cor-
porate accounting and audit, tax and
law, global finance (e.g., IMF, World
Bank), central banking, and regula-
tion (e.g., SEC), economic consulting
and policy as well as graduate school
in finance, economics, or accounting.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Corporate Finance track:

Principles of Financial Accounting
ACCT-UB 1

Microeconomics
ECON-UB 1

Statistics for Business Control
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103

ESSENTIAL COURSES

Financial Statement Analysis
ACCT-UB 3

Foundations of Finance
FINC-UB 2

Corporate Finance
FINC-UB 7

The Financial System
MULT-UB 27

ADVANCED ELECTIVES

Four courses from the following list, including at least two Corporate Finance electives*:

Any Finance elective
For course listings, see the Department of Finance section (page 36).

Managerial Accounting
ACCT-UB 4

Financial Reporting & Disclosure
ACCT-UB 21

Business Acquisitions, Deferred Taxes, Translations, & Derivatives
ACCT-UB 22

Financial Modeling & Analysis
ACCT-UB 23

Asian Economies
ECON-UB 222

Global Macroeconomic Issues
ECON-UB 230

Advanced Topics in Modern Macroeconomics
ECON-UB 234

Econometrics I
ECON-GB 3351 (Instructor permission required.)

Design & Development of Web & Mobile Apps
INFO-UB 22

Introduction to Programming & Data Science
INFO-UB 23

Analytics & the Digital Economy
INFO-UB 44

Data Mining for Business Analytics
INFO-UB 57

Strategic Analysis
MGMT-UB 18

Managing Family Businesses & Privately Held Firms
MGMT-UB 28

Decision Models & Analytics
MULT-UB 7

Decision-Making Under Uncertainty
MULT-UB 16

Game Theory
MULT-UB 20

Analysis I
MATH-UA 325

Statistical Inference & Regression Analysis
STAT-UB 15

Or

Regression & Multivariate Data Analysis
STAT-UB 17

Or

Introduction to Econometrics
ECON-UA 266

Introduction to Computer Programming
CSCI-UA 2

Or

Introduction to Computer Science
CSCI-UA 101

Or

Data Structures
CSCI-UA 102

Or

Numerical Analysis
MATH-UA 252

Or

Numerical Methods I
MATH-GA 2010

Courses

PREREQUISITES

Principles of Financial Accounting
ACCT-UB 1 4 units.
Full course description can be found in the Department of Accounting section (page 23).

Microeconomics
ECON-UB 1 4 units.
Full course description can be found in the Department of Economics section (page 30).

Statistics for Business Control
STAT-UB 1 4 units.
Full course description can be found in the Department of Statistics section (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.
Full course description can be found in the Department of Statistics section (page 55).

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.
Full course description can be found in the Department of Statistics section (page 55).

ESSENTIAL COURSES

Financial Statement Analysis
ACCT-UB 3 3 units. Fall and spring.
Full course description can be found in the Department of Accounting section (page 23).

* Corporate Finance electives are *FINC-UB 8, FINC-UB 22, FINC-UB 29, FINC-UB 30, FINC-UB 39, FINC-UB 45, FINC-UB 50, FINC-UB 61, FINC-UB 62, FINC-UB 68, and MULT-UB 80.*

Foundations of Finance
FINC-UB 2 4 units. Fall, spring, and summer.
Full course description can be found in the Department of Finance section (page 36).

Corporate Finance
FINC-UB 7 3 units. Fall, spring, and summer.
Full course description can be found in the Department of Finance section (page 36).

The Financial System
MULT-UB 27 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

ADVANCED ELECTIVES

Managerial Accounting
ACCT-UB 4 4 units. Fall and spring.
Full course description can be found in the Department of Accounting section (page 23).

Financial Reporting & Disclosure
ACCT-UB 21 3 units.
Full course description can be found in the Department of Accounting section (page 23).

Business Acquisitions, Deferred Taxes, Translations, & Derivatives
ACCT-UB 22 3 units.
Full course description can be found in the Department of Accounting section (page 23).

Financial Modeling & Analysis
ACCT-UB 23 3 units.
Full course description can be found in the Department of Accounting section (page 23).

Asian Economies
ECON-UB 222 3 units.
Full course description can be found in the Department of Economics section (page 30).

Global Macroeconomic Issues
ECON-UB 230 3 units.
Full course description can be found in the Department of Economics section (page 30).

Advanced Topics in Modern Macroeconomics
ECON-UB 234 3 units.
Full course description can be found in the Department of Economics section (page 30).

Econometrics I
ECON-GB 3351 3 units.
Full course description can be found on page 74.

Design & Development of Web & Mobile Apps
INFO-UB 22 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Introduction to Programming & Data Science
INFO-UB 23 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Analytics & the Digital Economy
INFO-UB 44 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Data Mining for Business Analytics
INFO-UB 57 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Strategic Analysis
MGMT-UB 18 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Family Businesses & Privately Held Firms
MGMT-UB 28 4 units.
Corequisite: MGMT-UB 1.
Full course description can be found in the Department of Management & Organizations section (page 44).

Decision Models & Analytics
MULT-UB 7 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Decision-Making Under Uncertainty
MULT-UB 16 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Game Theory
MULT-UB 20 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

Analysis I
MATH-UA 325 4 units.
Full course description can be found on page 67.

Statistical Inference & Regression Analysis
STAT-UB 15 3 units.
Full course description can be found in the Department of Statistics section (page 55).

Regression & Multivariate Data Analysis
STAT-UB 17 3 units.
Full course description can be found in the Department of Statistics section (page 55).

Introduction to Econometrics
ECON-UA 266 4 units.
Full course description can be found on the CAS Economics website at as.nyu.edu/econ.

Introduction to Computer Programming
CSCI-UA 2 4 units.
Full course description can be found on page 74.

Introduction to Computer Science
CSCI-UA 101 4 units. Fall and spring.
Full course description can be found on page 74.

Data Structures
CSCI-UA 102 4 units. Fall and spring.
Full course description can be found on page 74.

Numerical Analysis
MATH-UA 252 4 units.
Full course description can be found on page 66.

Numerical Methods I
MATH-GA 2010 3 units.
Full course description can be found on page 66.

Note: Students must fulfill all required prerequisites for any course listed.
Requests to take graduate-level courses must be processed through the Stern Undergraduate Advising Office. Please consult an academic adviser for further information.

Digital Marketing Track

The Internet and advances in digitization are transforming how companies and governments interact with customers and partners. Virtually every company in every industry is committed to establishing a “digital presence” that enables it to interact with customers and suppliers in new ways. As a result, today’s marketing managers need a deep understanding of how digital tools can be used to develop insights about customers and competitors and make key decisions about price, communications, channels, and products. This specialization provides students with the strategic and analytical skills to obtain positions in organizations that are using digital marketing tools and to add value to those organizations. The companies include the “suppliers” of these new digital tools (e.g., Google, Facebook), consulting firms and advertising agencies, and traditional companies that are routinely using these tools to aid in making everyday decisions.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Digital Marketing track:

Principles of Financial Accounting
ACCT-UB 1

Microeconomics
ECON-UB 1

Statistics for Business Control
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103

ESSENTIAL COURSES

Information Technology in Business & Society
INFO-UB 1

Data Analytics in Digital Marketing
INFO-UB 38

Networks, Crowds, & Markets
INFO-UB 60

Introduction to Marketing
MKTG-UB 1

ADVANCED ELECTIVES

Three courses from the following list:

Design & Development of Web & Mobile Apps
INFO-UB 22

Data Mining for Business Analytics
INFO-UB 57

Data-Driven Decision-Making
MKTG-UB 54

Brand Strategy & Planning
MKTG-UB 55

Digital Business Strategies
MKTG-UB 56

Decision Models & Analytics
MULT-UB 7

Courses

PREREQUISITES

Principles of Financial Accounting
ACCT-UB 1 4 units.
Full course description can be found in the Department of Accounting section (page 23).

Microeconomics
ECON-UB 1 4 units.
Full course description can be found in the Department of Economics section (page 30).

Statistics for Business Control
STAT-UB 1 4 units.
Full course description can be found in the Department of Statistics section (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.
Full course description can be found in the Department of Statistics section (page 55).

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.
Full course description can be found in the Department of Statistics section (page 55).

ESSENTIAL COURSES

Information Technology in Business & Society
INFO-UB 1 4 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Data Analytics in Digital Marketing
INFO-UB 38 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Networks, Crowds, & Markets
INFO-UB 60 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Introduction to Marketing
MKTG-UB 1 4 units.
Full course description can be found in the Department of Marketing section (page 47).

ADVANCED ELECTIVES

Design & Development of Web & Mobile Apps
INFO-UB 22 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Data Mining for Business Analytics
INFO-UB 57 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

Data-Driven Decision-Making
MKTG-UB 54 3 units.
Full course description can be found in the Department of Marketing section (page 47).

Brand Strategy & Planning
MKTG-UB 55 3 units.
Full course description can be found in the Department of Marketing section (page 47).

Digital Business Strategies
MKTG-UB 56 2 units.
Full course description can be found in the Department of Marketing section (page 47).

Decision Models & Analytics

MULT-UB 7 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Note: Students must fulfill all required prerequisites for any course listed.

Requests to take graduate-level courses must be processed through the Stern

Undergraduate Advising Office. Please consult an academic adviser for further information.

Entrepreneurship Track

The Entrepreneurship track is designed to help students meet the unique challenges of launching and growing a new venture. Successful entrepreneurs must be skilled in many disciplines including innovation, creativity, management, operations, marketing, and finance. While these areas are critical to all businesses and organizations, startups must also contend with limited resources and greater risk than large corporations. Collectively, these offerings emphasize business planning strategies that leverage all of these areas in a logical, coherent way. As a result, students gain the tools and insights needed to increase their chances of startup success.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Entrepreneurship track:

Principles of Financial Accounting
ACCT-UB 1

Microeconomics
ECON-UB 1

Statistics for Business Control
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103

ESSENTIAL COURSES

Patterns of Entrepreneurship
MGMT-UB 85

Getting to Launch: The Lean Startup Lab
MULT-UB 301

ADVANCED ELECTIVES

Three courses from the following list:

Managerial Accounting
ACCT-UB 4

Topics in Entrepreneurial Finance
FINC-UB 61

Applications in Entrepreneurial Finance: FinTech
FINC-UB 62

Managing People & Teams at Work
MGMT-UB 7

Social Media Strategy
MKTG-UB 45

Brand Strategy & Planning
MKTG-UB 55

Designing & Developing New Products
MKTG-UB 60

Social Entrepreneurship
BSPA-UB 41

Entrepreneurship 2.0
MULT-UB 39

Entrepreneurship & Law in Practice
MULT-UB 86

Fashion Industry: Creativity & Business
MULT-UB 104

The Stern Undergraduate College Office of Academic Advising may choose to allow a student who petitions to count an MBA course from the list below toward the track. Contact the Office of Academic Advising for further information.

Social Venture Capital
FINC-GB 3148

Venture Capital Financing
FINC-GB 3173

New Venture Financing
FINC-GB 3373

Managing the Growing Company
MGMT-GB 2327

Marketing for Entrepreneurs
MKTG-GB 2172

Courses

PREREQUISITES

Principles of Financial Accounting
ACCT-UB 1 4 units.
Full course description can be found in the Department of Accounting section (page 23).

Microeconomics
ECON-UB 1 4 units.
Full course description can be found in the Department of Economics section (page 30).

Statistics for Business Control
STAT-UB 1 4 units.
Full course description can be found in the Department of Statistics section (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.
Full course description can be found in the Department of Statistics section (page 55).

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.
Full course description can be found in the Department of Statistics section (page 55).

ESSENTIAL COURSES

Patterns of Entrepreneurship
MGMT-UB 85 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Getting to Launch: The Lean Startup Lab
MULT-UB 301 3 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

ADVANCED ELECTIVES

Managerial Accounting
ACCT-UB 4 4 units. Fall and spring.
Full course description can be found in the Department of Accounting section (page 23).

Topics in Entrepreneurial Finance
FINC-UB 61 3 units.
Full course description can be found in the Department of Finance section (page 36).

Applications in Entrepreneurial Finance: FinTech
FINC-UB 62 3 units.
 Full course description can be found in the Department of Finance section (page 36).

Managing People & Teams at Work
MGMT-UB 7 3 units.
 Full course description can be found in the Department of Management & Organizations section (page 44).

Social Media Strategy
MKTG-UB 45 2 units.
 Full course description can be found in the Department of Marketing section (page 47).

Brand Strategy & Planning
MKTG-UB 55 3 units.
 Full course description can be found

in the Department of Marketing section (page 47).

Designing & Developing New Products
MKTG-UB 60 3 units.
 Full course description can be found in the Department of Marketing section (page 47).

Social Entrepreneurship
BSPA-UB 41 3 units.
 Full course description can be found in the Sustainable Business section (page 58).

Entrepreneurship 2.0
MULT-UB 39 2 units.
 Full course description can be found in the Multidisciplinary Courses section (page 62).

Entrepreneurship & Law in Practice
MULT-UB 86 2 units.
 Full course description can be found in the Multidisciplinary Courses section (page 62).

Fashion Industry: Creativity & Business
MULT-UB 104 3 units.
 Full course description can be found in the Multidisciplinary Courses section (page 62).

Note: Students must fulfill all required prerequisites for any course listed.
Requests to take graduate-level courses must be processed through the Stern Undergraduate Advising Office. Please consult an academic adviser for further information.

Luxury Marketing Track

The Luxury Marketing track allows students to develop the perspective and skills necessary to pursue careers in the luxury sector. This is an important part of the economy both in the U.S. and worldwide. Marketing luxury products and services presents a number of unique challenges including the nature of the target market, the importance of establishing a strong relationship with customers, the critical role of brand image, and the nature of the distribution system.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Luxury Marketing track:

Principles of Financial Accounting
 ACCT-UB 1

Microeconomics
 ECON-UB 1

Statistics for Business Control
 STAT-UB 1

And

Regression & Forecasting Models
 STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
 STAT-UB 103

ESSENTIAL COURSES

Introduction to Marketing
 MKTG-UB 1

Consumer Behavior
 MKTG-UB 2

Research for Customer Insights
 MKTG-UB 9

Luxury Marketing
 MKTG-UB 84

Retail Strategy (half semester)
 MKTG-UB 88

Retail Merchandising & Management (half semester)
 MKTG-UB 89

ADVANCED ELECTIVES

Four courses from the following list:

Data-Driven Decision Making
 MKTG-UB 54

Supply Chain Management
 OPMG-UB 6

Fashion Industry: Creativity & Business
 MULT-UB 104

The Dynamics of the Fashion Industry
 MULT-UB 151

A student may count one or more of the courses listed below as an advanced elective if he or she completes a project within the course pertaining to luxury brands or the luxury sector.

Pricing
 MKTG-UB 53

Brand Strategy & Planning
 MKTG-UB 55

Designing & Developing New Products
 MKTG-UB 60

Full Stack Fashion
 MKTG-UB 82

Courses

PREREQUISITES

Principles of Financial Accounting
 ACCT-UB 1 4 units.
 Full course description can be found in the Department of Accounting section (page 23).

Microeconomics
 ECON-UB 1 4 units.
 Full course description can be found in the Department of Economics section (page 30).

Statistics for Business Control
 STAT-UB 1 4 units.
 Full course description can be found in the Department of Statistics section (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.

Full course description can be found in the Department of Statistics section (page 55).

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.

Full course description can be found in the Department of Statistics section (page 55).

ESSENTIAL COURSES**Introduction to Marketing**
MKTG-UB 1 4 units.

Full course description can be found in the Department of Marketing section (page 47).

Consumer Behavior
MKTG-UB 2 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Research for Customer Insights
MKTG-UB 9 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Luxury Marketing
MKTG-UB 84 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Retail Strategy (half semester)
MKTG-UB 88 2 units.

Full course description can be found in the Department of Marketing section (page 47).

Retail Merchandising and Management (half semester)
MKTG-UB 89 2 units.

Full course description can be found in the Department of Marketing section (page 47).

ADVANCED ELECTIVES**Data-Driven Decision-Making**
MKTG-UB 54 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Supply Chain Management
OPMG-UB 6 3 units.

Full course description can be found in the Department of Operations Management section (page 53).

Fashion Industry: Creativity & Business
MULT-UB 104 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

The Dynamics of the Fashion Industry

MULT-UB 151 3 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Pricing

MKTG-UB 53 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Brand Strategy & Planning

MKTG-UB 55 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Designing & Developing New Products

MKTG-UB 60 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Full Stack Fashion

MKTG-UB 82 3 units.

Full course description can be found in the Department of Marketing section (page 47).

Note: Students must fulfill all required prerequisites for any course listed.

Requests to take graduate-level courses must be processed through the Stern Undergraduate Advising Office. Please consult an academic adviser for further information.

Management Consulting Track

Stern's approach to teaching consulting is to consider it an effective way of thinking about businesses and solving business problems, which is valuable to any position inside and outside the consulting industry. Consultants identify and adapt "best practices" to firms that hire them, working on different projects across varied industries, usually with access to top executives in those firms. Consultants can be called on for their strategic, operational, industry, and financial expertise. This track is an excellent complement to a concentration in Management as well as other areas such as Accounting, Finance, and Marketing.

Because consultants gain exposure to many organizations across many industries, they are well positioned to observe patterns and become aware of "best practices" tied to various market positions and structures. Consultants must also have an understanding of the constraints of applying a "best practice" in a context that

has different features from the context in which the "best practice" was identified. Also, as a result of their vantage point, consultants are sometimes able to perceive changes in industry or general market conditions slightly ahead of a leader inside an organization in one industry. As they seek to identify the most critical factors constraining organizational performance, consultants triangulate among operational, market, financial, organizational, and cultural issues.

Students who select this track develop a number of core skills, including data analysis, problem solving, and peer leadership as well as written, verbal, and visual communications. With an appropriate choice of elective courses, this track provides in-depth preparation for careers in management consulting, strategy consulting, economic consulting, healthcare consulting, and information technology consulting.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Management Consulting track:

Principles of Financial Accounting
ACCT-UB 1**Microeconomics**
ECON-UB 1**Statistics for Business Control**
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103

ESSENTIAL COURSES

Management & Organizations
MGMT-UB 1

Strategic Analysis
MGMT-UB 18

Dealing with Data
INFO-UB 46

Or

Data Mining for Business Analytics
INFO-UB 57

Or

Data-Driven Decision-Making
MKTG-UB 54

International Studies Program
MULT-UB 11

Note: Students may take more than one of these classes. Taking one of these classes meets Essentials requirements and any additional courses taken from the list fulfill Advanced Elective requirements.

ADVANCED ELECTIVES

Four courses from the following list:

Financial Statement Analysis
ACCT-UB 3

Competitive Analysis
ECON-UB 15

Equity Valuation
FINC-UB 41

Mergers, Acquisitions, & Restructuring
FINC-UB 50

Digital Innovation & Crowdsourcing
INFO-UB 70

International Business Management
MGMT-UB 4

Managing People & Teams at Work
MGMT-UB 7

Managing Innovation
MGMT-UB 8

Managing Change
MGMT-UB 25

Operations Management
OPMG-UB 1

Case Analysis
MULT-UB 5

Courses

PREREQUISITES

Principles of Financial Accounting
ACCT-UB 1 4 units.
Full course description can be found in the Department of Accounting section (page 23).

Microeconomics
ECON-UB 1 4 units.
Full course description can be found in the Department of Economics section (page 30).

Statistics for Business Control
STAT-UB 1 4 units.
Full course description can be found in the Department of Statistics section (page 55).

Regression & Forecasting Models
STAT-UB 3 2 units.
Full course description can be found in the Department of Statistics section (page 55).

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103 6 units.
Full course description can be found in the Department of Statistics section (page 55).

ESSENTIAL COURSES

Management & Organizations
MGMT-UB 1 4 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Strategic Analysis
MGMT-UB 18 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Data-Driven Decision-Making
MKTG-UB 54 3 units.
Full course description can be found in the Department of Marketing section (page 47).

Dealing with Data
INFO-UB 46 3 units.
Full course description can be found in the Computing & Data Science section (page 27).

Data Mining for Business Analytics
INFO-UB 57 3 units.
Full course description can be found in the Computing & Data Science section (page 27).

International Studies Program
MULT-UB 11 4 units.
Full course description can be found in the Multidisciplinary Courses section (page 62).

ADVANCED ELECTIVES

Financial Statement Analysis
ACCT-UB 3 3 units. *Fall and spring.*
Full course description can be found in the Department of Accounting section (page 23).

Competitive Analysis
ECON-UB 15 3 units.
Full course description can be found in the Department of Economics section (page 30).

Equity Valuation
FINC-UB 41 3 units.
Full course description can be found in the Department of Finance section (page 36).

Mergers, Acquisitions, & Restructuring
FINC-UB 50 2 units.
Full course description can be found in the Department of Finance section (page 36).

Digital Innovation & Crowdsourcing
INFO-UB 70 3 units.
Full course description can be found in the Department of Computing & Data Science section (page 27).

International Business Management
MGMT-UB 4 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Managing People & Teams at Work
MGMT-UB 7 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Innovation
MGMT-UB 8 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Managing Change
MGMT-UB 25 3 units.
Full course description can be found in the Department of Management & Organizations section (page 44).

Operations Management
OPMG-UB 1 4 units.
Full course description can be found in the Department of Operations section (page 53).

Case Analysis

MULT-UB 5 2 units.

Full course description can be found in the Multidisciplinary Courses section (page 62).

Note: Students must fulfill all required prerequisites for any course listed.

Requests to take graduate-level courses must be processed through the Stern

Undergraduate Advising Office. Please consult an academic adviser for further information.

Real Estate Track

The Real Estate track provides rigorous training in (1) the economics of real estate development and investment, financing of such projects, leasing, and appraisal of buildings; (2) the pricing/valuation and trading of financial instruments with real estate as the underlying asset, such as Real Estate Investment Trusts (REITS), residential and commercial mortgage-backed securities (MBS), and related derivative and structured finance products such as collateralized debt obligations (CDOs), credit default swaps (CDS), and index products (CDX, ABX, etc.); (3) the workings of real estate primary and secondary markets, including the various participants in these markets, their roles; and (4) the legal, taxation, and regulatory environment. Elective courses can be chosen to emphasize the commercial real estate development process (RED focus) or the investment strategies in real estate capital markets (REF focus). With an appropriate choice of elective courses, this track provides in-depth preparation for careers in real estate development, real estate brokerage, real estate project investment for private equity firms, family offices, sovereign wealth funds, and careers in real estate finance in the fixed income or equity desks of investment banks (research, sales and trading), hedge funds, and sovereign wealth funds.

PREREQUISITES

Students are required to take the following prerequisite courses before pursuing the Real Estate track:

Principles of Financial Accounting
ACCT-UB 1

Microeconomics
ECON-UB 1

Foundations of Finance
FINC-UB 2

Law, Business, & Society
SOIM-UB 6

Statistics for Business Control
STAT-UB 1

And

Regression & Forecasting Models
STAT-UB 3

Or

Statistics for Business Control and Regression & Forecasting Models
STAT-UB 103

ESSENTIAL COURSES

Corporate Finance
FINC-UB 7

Real Estate Capital Markets
FINC-UB 38

Real Estate Primary Markets
FINC-UB 39

Real Estate Transactions
MULT-UB 51

ADVANCED ELECTIVES

Students should take three courses from the following lists.

The courses denoted by [REF] are more interesting for students leaning toward a real estate finance specialization, whereas the courses denoted with [RED] are more interesting for students who want to focus on the development, direct investment, or management of property.

At least one of the following two courses is required:

(It is allowed and even recommended to take both.)

Real Estate Investment Strategies [REF]
FINC-UB 35

Real Estate Development & Entrepreneurship [RED]
OPMG-UB 60

The remaining electives may be selected from this list:

Financial Statement Analysis [RED/REF]
ACCT-UB 3

Taxation of Individuals [RED]
ACCT-UB 63

Urban Economics [RED]
ECON-UA 237

Macroeconomic Foundations for Asset Prices [REF]
ECON-UB 233

Risk Management in Financial Institutions [REF]
FINC-UB 22

Emerging Markets Finance [RED/REF]
FINC-UB 23

Debt Instruments [REF]
FINC-UB 26

Behavioral Finance [RED/REF]
FINC-UB 29

Equity Valuation [REF]
FINC-UB 41

Mergers, Acquisitions, & Restructuring [RED]
FINC-UB 50

Topics in Entrepreneurial Finance [RED]
FINC-UB 61

Strategic Analysis [RED]
MGMT-UB 18

Negotiation & Consensus Building [RED/REF]
MGMT-UB 30

Applicable courses in the College of Arts & Science Departments of Art History, Urban Design, and Architecture Studies.

Applicable Urban Planning courses in the Wagner Graduate School of Public Service subject to approval of instructor and Real Estate track adviser.



Faculty of the Leonard N. Stern School of Business

Faculty appointments and general information change frequently.

Visit stern.nyu.edu/experience-stern/faculty-research for the most updated faculty listings.

Accounting

Eli Bartov

Professor of Accounting; Research Professor of Accounting
B.A. 1977, Tel Aviv; Ph.D. 1989, California (Berkeley)

John S. Bildersee

Professor of Accounting
B.A. 1966, Princeton; M.B.A., Ph.D. 1971, Chicago

Mary Billings

Assistant Professor of Accounting
B.S. 1998, Indiana; M.B.A., 2006, Indiana; Ph.D. 2007, Indiana

Christine Cuny

Assistant Professor of Accounting
B.S. 2003, M.S. 2003, Wake Forest; M.B.A. 2012, Ph.D. 2013, Chicago

Alex Dontoh

Associate Professor of Accounting; Deputy Chairperson, Department of Accounting Taxation, and Business Law
B.Sc. 1973, Ghana; M.B.A. 1976, California (Berkeley); M.Phil. 1982, Ph.D. 1984, New York

Yiwei Dou

Assistant Professor of Accounting
B.A. 2005, Peking (China); M.A. 2006, York; Ph.D. 2012, Toronto

Dhananjay Gode

Clinical Professor of Accounting
B.S. 1986, Banaras Hindu; M.B.A. 1988, Indian Institute of Management; M.S. 1990, 1992, Ph.D. 1994, Carnegie Mellon

Ilan Guttman

Associate Professor of Accounting
B.A. 1995, B.Sc. 1996, M.A. 1998, Ph.D. 2004, Hebrew

April Klein

Professor of Accounting
B.A. 1977, Pennsylvania; M.B.A. 1979, Ph.D. 1983, Chicago

Baruch I. Lev

Philip Bardes Professor of Accounting and Finance
B.A. 1962, Hebrew; M.B.A. 1967, Ph.D. 1968, Chicago

Ajay Maindiratta

Associate Professor of Accounting
B.Tech. 1975, Indian Institute of Technology; Ph.D. 1984, Carnegie Mellon

Xiaoqing Meng

Assistant Professor of Accounting
B.A. 2001, Central University of Finance and Economics; M.A. 2003, Beijing University; Ph.D. 2012, Columbia

Joshua Ronen

Professor of Accounting
B.A. 1959, M.S. 1963, Hebrew; Ph.D. 1969, Stanford; CPA

Stephen G. Ryan

Professor of Accounting; Peat Marwick Faculty Fellow
B.A. 1981, Dartmouth College; Ph.D. 1988, Stanford

Amal Shehata

Clinical Associate Professor of Accounting
B.S. 1995, M.S. 1995, North Carolina (Chapel Hill)

Michael Tang

Assistant Professor of Accounting, Taxation, and Business Law
B.A. 2007, Fudan (China); M.S. 2010, Ph.D. 2012, Rochester

Paul Zarowin

Professor of Business Law and Accounting; Charlotte Lindner MacDowell Faculty Fellow
B.A. 1977, Pennsylvania; M.B.A. 1981, Ph.D. 1985, Chicago

Economics

Simon Bowmaker

Clinical Associate Professor of Economics
M.A. 1996, Aberdeen; M. Phil. 1997, Cambridge; Ph.D. 2008, St Andrews

Adam M. Brandenburger

J. P. Valles Professor of Business Economics and Strategy; Distinguished Professor, Tandon School of Engineering; Global Network Professor
B.A. 1981, M.Phil. 1982, Ph.D. 1986, Cambridge

Luís Cabral

Paganelli-Bull Professor of Economics and International Business
B.A. 1983, Catolica (Portugal); M.S. 1985, Nova (Portugal); Ph.D. 1989, Stanford

Gian Luca Clementi

Associate Professor of Economics
B.A. 1993, Bologna (Italy); M.A. 1998, Ph.D. 2000, Rochester

Christopher Conlon

Assistant Professor of Economics
A.B. 2004, Harvard; M.A. 2005, Ph.D. 2010, Yale

Michael Dickstein

Assistant Professor of Economics
B.S. 2005, Cornell; M.A. 2008, Ph.D. 2011, Harvard

Nicholas S. Economides

Professor of Economics
B.S. 1976, London School of Economics; M.A. 1979, Ph.D. 1981, California (Berkeley)

Joseph Foudy

Clinical Associate Professor of Economics and Management
B.A. 1996, American; Ph.D. 2004, Cornell

William H. Greene
Professor of Economics;
Entertainment and Media Faculty
Fellow
B.S. 1972, Ohio State; M.A. 1974,
Ph.D. 1976, Wisconsin

Walker Hanlon
Assistant Professor of Economics
B.A. 2004 Stanford; M.A. 2008, M.
Phil. 2009 Ph.D. 2012, Columbia

Peter Henry
William R. Berkley Professor of
Economics & Finance
B.A. 1991, North Carolina (Chapel
Hill); B.A. 1993, Oxford; Ph.D. 1997,
MIT

Mervyn King
Alan Greenspan Clinical Professor of
Economics
M.A. 1969, Cambridge

Greg Kubitz
Visiting Assistant Professor of
Economics
B.S. 2009, M.S. 2010, Western
Washington University; Ph.D. 2016,
California (Los Angeles)

Pricila Maziero
Visiting Assistant Professor of
Economics
B.A. 1999, Sao Paulo State; M.A.
2002, University of Sao Paulo; M.A.
2006, Ph.D. 2009, Minnesota

Petra Moser
Associate Professor of Economics
B.A. 1992, Tubingen; M.A. 1996,
Yale; Ph.D. 2002, California
(Berkeley)

Thomas A. Pugel
Professor of Economics and Global
Business
B.A. 1974, Michigan State; Ph.D.
1978, Harvard

Nouriel Roubini
Professor of Economics and
International Business
B.A. 1982, Bocconi (Italy); Ph.D.
1988, Harvard

Maher Said
Assistant Professor of Economics
B.A. 2003, NYU; M.A. 2005, M.Phil.
2006, Ph.D. 2009, Yale

Thomas Sargent
William R. Berkley Professor of
Economics and Business
B.A. 1964, California (Berkley); Ph.D.
1968, Harvard

Kermit Schoenholtz
Henry Kaufman Clinical Professor
of the History of Financial
Institutions and Markets
A.B. 1977, Brown; M.Phil. Economics
1982, Yale

Paul Scott
Assistant Professor of Economics
B.A. 2007, UC San Diego; M.A.
2009, Ph.D. 2013, Princeton

A. Michael Spence
William R. Berkley Clinical
Professor of Economics and
Business
B.A. 1966, Princeton; B.A. 1968,
Oxford; Ph.D. 1972, Harvard

Yossi Spiegel
Visiting Professor of Economics
B.A. 1985, M.A. 1987, Tel Aviv
University; Ph.D. 1991, Northwestern

Laura Veldkamp
Professor of Economics and Finance
B.A. 1996, Northwestern; Ph.D.
2001, Stanford

Vaidyanathan Venkateswaran
Assistant Professor of Economics
B.Com. 1996, Mahatma Ghandi
(India); M.A. 2008, Ph.D. 2011,
California (Los Angeles)

Paul A. Wachtel
Professor of Economics
B.A. 1966, Queens College (CUNY);
M.A. 1968, Ph.D. 1971, Rochester

Michael Waugh
Associate Professor of Economics
B.A. 2001, Saint Anselm College;
M.A. 2003, Fordham; Ph.D. 2008,
Iowa

Lawrence J. White
Robert Kavesh Professor of
Economics
B.A. 1964, Harvard; M.Sc. 1965,
London School of Economics; Ph.D.
1969, Harvard

Stanley Zin
William R. Berkley Professor of
Economics and Business
B.A. 1979, Windsor; M.A. 1981,
Wayne; Ph.D. 1978, Toronto

Finance

Viral Acharya
C.V. Starr Professor of Economics
B.Tech. 1995, Indian Institute of
Technology (Bombay); Ph.D. 2001,
New York

Yakov Amihud
Ira Rennert Professor of
Entrepreneurial Finance
B.A. 1969, Hebrew; M.S. 1973, Ph.D.
1975, New York

Menachem Brenner
Professor of Finance
B.A. 1969, Hebrew; M.A. 1971,
Ph.D. 1974, Cornell

Jennifer N. Carpenter
Associate Professor of Finance
B.S. 1987, M.A. 1993 (mathematics),
M.A. 1994, Ph.D. 1995, Pennsylvania

Aswath Damodaran
Professor of Finance; Kerschner
Family Chair in Finance Education
B.Com. 1977, Madras; M.S. 1979,
Indian Institute of Management;
M.B.A. 1981, Ph.D. 1985, California
(Los Angeles)

Kathleen DeRose
Clinical Associate Professor of
Finance
B.A. 1983, Princeton; M.B.A. 2011,
NYU Stern/ Ecole des Hautes Etudes
Commerciales de Paris (HEC)/London
School of Economics; Ms.C. 2015,
Oxford.

Eduardo Davila
Assistant Professor of Finance
B.A. 2006, Las Palmas de Gran
Canaria (Spain); B.A. 2008, Pompeu
Fabra (Spain); M.A. 2011, Ph.D.
2014, Harvard

Itamar Drechsler
Associate Professor of Finance
B.S. 2002, M.A. 2003, M.A. 2007,
Ph.D. 2009, Pennsylvania

Robert Engle
Michael Armellino Professor of the
Management of Financial Services
B.S. 1964, Williams College; M.S.
1966, Ph.D. 1969, Cornell

Stephen C. Figlewski
Professor of Finance
B.A. 1969, Princeton; Ph.D. 1976,
Massachusetts Institute of Technology

Arpit Gupta
Assistant Professor of Finance
B.S. 2009, Chicago; Ph.D. 2016,
Columbia.

Joel Hasbrouck
Kenneth G. Langone Professor of Business
B.S. 1974, Haverford; M.A. 1980, Ph.D. 1981, Pennsylvania

Peter Henry
Dean Emeritus, Leonard N. Stern School of Business

William R. Berkley Professor of Economics & Finance
B.A. 1991, University of North Carolina Chapel Hill; B.A. 1993, Oxford; Ph.D. 1997, Massachusetts Institute of Technology

Sabrina Howell
Assistant Professor of Finance
B.A. 2008, Yale; Ph.D. 2015, Harvard

Manjiree Jog
Clinical Assistant Professor of Finance
B.Com. 1987, Pune (India); M.B.A. 1997, New York

Kose John
Charles William Gerstenberg Professor of Banking and Finance
B.S. 1970, India; M.S. 1974, Florida Institute of Technology; Ph.D. 1978, Florida

Ralph Koijen
Professor of Finance
M.A. 2003, Ph.D. 2008, Tilburg University

Theresa Kuchler
Assistant Professor of Finance
Diploma 2007, Mannheim (Germany); Ph.D. 2013, Stanford

Richard M. Levich
Professor of Finance and International Business; Deputy Chair, Department of Finance
B.A. 1971, M.B.A. 1971, Ph.D. 1977, Chicago

Andres Liberman
Assistant Professor of Finance
B.A. 2004, Chile; M.Phil. 2011, Ph.D. 2013, Columbia

Alexander Ljungqvist
Ira Rennert Professor of Finance and Entrepreneurship; Sydney Homer Director, NYU Salomon Center
M.S. 1992, Lund (Sweden); M.Phil. 1994, Ph.D. 1995, Oxford

Anthony W. Lynch
Professor of Finance
B.A. 1986, M.A. 1988, J.D. 1989, Queensland (Australia); Ph.D. 1994, Chicago

Anthony Marciano
Clinical Professor of Finance
B.A. 1983, Dartmouth; M.B.A. 1998, Massachusetts Institute of Technology

Holger Mueller
Nomura Professor of Finance
M.B.A. 1993, Ph.D. 1997, St. Gallen (Switzerland)

Charles J. Murphy
Professor of Management Practice
B.S. 1969, Manhattan; M.B.A. 1974, A.P.C. 1975, New York

Cecilia Parlatore
Assistant Professor of Finance
B.A. 2005, M.A. 2008 Torcuato Di Tella (Argentina); Ph.D. 2014, NYU

Thomas Philippon
Professor of Finance
B.S. 1997, Ecole Polytechnique (France); M.A. 1998, Ecole Normale Supérieure, DELTA (France); M.A. 1999, London School of Economics; Ph.D. 2003, Massachusetts Institute of Technology

Matthew P. Richardson
Charles Simon Professor of Applied Financial Economics
B.A. 1984, M.A. 1984, California (Los Angeles); Ph.D. 1989, Stanford

Anthony Saunders
John M. Schiff Professor of Finance
B.S. 1971, M.S. 1972, Ph.D. 1981, London School of Economics

Alexi Savov
Associate Professor of Finance
B.A. 2005, Washington University (St. Louis); M.B.A. 2010, Ph.D. 2010, Chicago

Anjolein Schmeits
Clinical Professor of Finance
B.S./M.Sc. 1991, Tilburg; Ph.D. 1999, Amsterdam

Philipp Schnabl
Associate Professor of Finance
B.A./M.A. 2000, Vienna University of Economics and Business Administration; M.P.A. 2003, Ph.D. 2008, Harvard

Gustavo Schwed
Clinical Professor of Finance
B.A. 1984, Swarthmore; MBA 1988, Stanford

Haran Segram
Clinical Assistant Professor of Finance
B.B. 2002, University of Technology (Sydney); Ph.D. 2012, University of Sydney

William L. Silber
Marcus Nadler Professor of Finance and Economics; Director, L. Glucksman Institute for Research in Securities Markets
B.A. 1963, Yeshiva; M.A. 1965, Ph.D. 1966, Princeton

Johannes Stroebel
Associate Professor of Finance
B.A. 2006, Oxford; Ph.D. 2012, Stanford

Marti G. Subrahmanyam
Charles E. Merrill Professor of Finance
B.Tech. 1967, Indian Institute of Technology; Dipl. 1969, Indian Institute of Management; Ph.D. 1974, Massachusetts Institute of Technology

Rangarajan K. Sundaram
Dean, Leonard N. Stern School of Business
Dean Richard R. West Professor of Finance
Edward I. Altman Professor of Credit & Debt Markets and Professor of Finance
B.A. 1982, Madras; M.B.A. 1984, Indian Institute of Management; M.A. 1987, Ph.D. 1988, Cornell

Bruce Tuckman
Clinical Professor of Finance
A.B. 1984, Harvard; Ph.D. 1989, Massachusetts Institute of Technology

Stijn Van Nieuwerburgh
Professor of Finance; Director, Center for Real Estate Finance Research
B.A. 1998, Gent (Belgium); M.A. 2000, M.Sc. 2001, Ph.D. 2003, Stanford

Robert F. Whitelaw
Edward C. Johnson 3d Professor of Entrepreneurial Finance
B.S. 1984, Massachusetts Institute of Technology; Ph.D. 1993, Stanford

Jeffrey A. Wurgler
Nomura Professor of Finance
B.A.S. 1994, Stanford; M.A., Ph.D. 1999, Harvard

David Yermack
Albert Fingerhut Professor of Finance and Business Transformation; Chair, Department of Finance
B.A. 1985, J.D. 1991, M.B.A. 1991, M.A. 1993, Ph.D. 1994, Harvard

Information Systems Group

Yannis Bakos

Associate Professor of Information Systems
B.S. 1980, M.S. 1984, Ph.D. 1988,
Massachusetts Institute of Technology

Vasant Dhar

Professor of Information Systems;
Deputy Chairperson, Information
Systems Group in Information,
Operations, and Management
Sciences
B.S. 1978, Indian Institute of
Technology; M.Phil. 1982, Ph.D.
1984, Pittsburgh

Anindya Ghose

Heinz Reihl Professor of Business
B.Tech. 1996, Regional Engineering
College (Jalandhar, India); M.B.A.
1998, Indian Institute of Management
(Calcutta); M.S. 2002, Ph.D. 2004,
Carnegie Mellon

John J. Horton

Assistant Professor of Information
Systems in Information,
Operations, and Management
Sciences
B.S. 2001, Military; Ph.D. 2011,
Harvard

Panagiotis G. Ipeirotis

Associate Professor of Information,
Operations and Management
Sciences
B.Sc. 1999, Patras (Greece); M.S.
2000, M.Phil. 2003, Ph.D. 2004,
Columbia

Natalia Levina

Associate Professor of Information
Systems
B.A. 1994, M.A. 1994, Boston; Ph.D.
2001, Massachusetts Institute of
Technology

Foster Provost

Associate Professor of Information
Systems; NEC Faculty Fellow;
Danielle P. Paduano Faculty Fellow
B.S. 1986, Duquesne; M.S. 1988,
Ph.D. 1992, Pittsburgh

Lee S. Sproull

Leonard N. Stern Professor of
Business Emerita
B.A. 1967, Wellesley College; M.A.T.
1969, Wesleyan; M.A. 1975, Ph.D.
1977, Stanford

Arun Sundarajan

Professor of Information Systems;
NEC Faculty Fellow
B.Tech. 1993, Indian Institute of
Technology; M.S. 1995, D.Phil. 1997,
Rochester

Prasanna Tambe

Assistant Professor of Information
Systems
B.S. 1996, M.Eng. 1997,
Massachusetts Institute of Technology;
Ph.D. 2008, Pennsylvania

Alexander Tuzhilin

Professor of Information Systems;
NEC Faculty Fellow
B.A. 1980, New York; M.S. 1981,
Stanford; Ph.D. 1989, New York

Norman H. White

Clinical Professor of Information
Systems; Faculty Director, Center
for Research Computing
B.A. 1966, Harvard; M.S. 1971,
Ph.D. 1974, New York

Management Communication

Susan Stehlik

Clinical Associate Professor of
Management Communication;
Director, Department of
Management Communication
B.S. 1972, Wisconsin (Madison);
M.S., 1990 New School

Naomi Diamant

Deputy Dean TRIUM, Assistant
Dean Global Programs, and
Clinical Assistant Professor of
Management Communication
B.A. 1982, Cape Town; M.A. 1986,
Hebrew; Ph.D. 1992, Columbia

Brian Hanssen

Clinical Assistant Professor of
Management Communication
B.A. 2001, UCLA; M.A. 2008
Columbia University

Dianne Lennard

Clinical Associate Professor of
Management Communication
B.A. 1974, Bard; M.S. 1977, Bank
Street College of Education; Ph.D.
2004, Union Institute and University

Robert Lyon

Clinical Assistant Professor of
Management Communication
B.A. 1979, Macalester College; M.F.A.
2004, New York

David Purdy

Clinical Assistant Professor of
Management Communication
B.M.Ed 1978, Temple; M.B.A. 1985,
Maryland

Irv Schenkler

Clinical Associate Professor of
Management Communication
A.B. 1975, Columbia; M.A. 1976;
MPhil. 1978

Yu Shi

Clinical Associate Professor of
Management Communication
B.A. 1998 Foreign Languages
Institute (China); Ph.D. 2005,
University of Iowa

Robert Wosnitzer

Clinical Assistant Professor of
Management Communication
B.A. 2006, NYU; M.A. 2008, NYU
Steinhardt; Ph.D. 2014 NYU
Steinhardt

Jeffrey Younger

Clinical Assistant Professor of
Management Communication
B.A. 1981, Pennsylvania; M.S. 2005,
Brooklyn College

Callen Anthony

Assistant Professor of Management and Organizations
H.B.A. 2009, Ivey Western Ontario; M.Sc. 2012, Oxford; Ph.D. 2018, Boston College

Beth A. Bechky

Professor of Management and Organizations; Jacob B. Melnick Term Professor
B.S. 1991, Cornell; M.A. 1992, Ph.D. 1999, Stanford

Steven L. Blader

Professor of Management and Organizations; Deputy Chair (2017-18), Chair (as of 2018); Department of Management & Organizations; Edward J. Giblin Faculty Fellow
B.A. 1994, Pennsylvania; M.A. 1999, Ph.D. 2002, New York

Elizabeth Boyle

Clinical Associate Professor of Management and Organizations
B.A. 1983, Catholic University of America; M.B.A. 1989, Ph.D. 2004, New York

Gino Cattani

Associate Professor of Management and Organizations
B.A. 1991, D.B.A. 1997, Pisa; M.A. 2001, Ph.D. 2004, Wharton

Dolly Chugh

Associate Professor of Management and Organizations
B.A. 1990, Cornell; M.B.A. 1994, M.A. 2003, Ph.D. 2006, Harvard

Sinziana Dorobantu

Assistant Professor of Management and Organizations
B.A. 2001, American University in Bulgaria; M.A. 2005, Ph.D. 2010, Duke

Jamie “J.P.” Eggers

Associate Professor of Management and Organizations; Academic Director, Tech MBA Program
B.A. 1993, Amherst College; M.B.A. 1999, Emory; Ph.D. 2008, Pennsylvania

Christina Fang

Associate Professor of Management and Organizations
B.A. 1997, Nanyang Technological (Singapore); M.A. 2001, Ph.D. 2003, Pennsylvania

Pankaj Ghemawat

Professor of Management and Strategy; Director, Center for the Globalization of Education and Management
A.B. 1979, Harvard; Ph.D. 1982, Harvard

Ari Ginsberg

Professor of Entrepreneurship and Management
B.H.L. 1975, ITRI College; M.A. 1977, Columbia; M.B.A. 1982, Ph.D. 1985, Pittsburgh

Jason Greenberg

Assistant Professor of Management and Organizations
A.A. 1994, Rockland Community College; B.A. 1996, Binghamton University; M.A. 2000, Florida (Gainesville); M.P.P. 2002, Chicago; Ph.D. 2009, Massachusetts Institute of Technology

Deepak Hegde

Associate Professor of Management and Organizations; Director, Creative Destruction Lab
Bachelor of Industrial Engineering 1999, The National Institute of Engineering (India); M.P.P. 2005, Georgia Institute of Technology; M.B.A. 2008, Ph.D. 2010, California (Berkeley)

R. Kabaliswaran

Clinical Associate Professor of Management and Organizations
B. Tech. 1975, Indian Institute of Technology; M.E. 1981, Manhattan College; Ph.D. 1991, New York

Gavin J. Kilduff

Assistant Professor of Management and Organizations
B.S. 2002, Pennsylvania State; Ph.D. 2010, California (Berkeley)

Anat Lechner

Clinical Associate Professor of Management and Organizations
B.S. 1998, Tel Aviv; M.B.A. 1994, Ph.D. 2000, Rutgers

Lisa Leslie

Associate Professor of Management and Organizations
A.B. 2001, Princeton; M.A. 2004, Ph.D. 2007, Maryland

Sonia Marciano

Clinical Professor of Management and Organizations; Director, Academic Director TRIUM Global Executive MBA
B.A. 1984, M.B.A. 2000, Ph.D. 2000, Chicago

Joseph Magee

Associate Professor of Management and Organizations, Stern School of Business & Wagner Graduate School of Public Service
B.A. 1996, Michigan; Ph.D. 2004, Stanford

Frances J. Milliken

Professor of Management and Organizations; Arthur E. Imperatore Professorship in Entrepreneurial Studies; Academic Director, Langone Program in Westchester
B.A. 1978, Barnard; M.B.A. 1982, Ph.D. 1985, City College (CUNY)

Elizabeth Morrison

Professor of Management and Organizations; ITT Harold Geneen Professor in Creative Management; Vice Dean of Faculty
B.A. 1984, Brown; M.S. 1988, Ph.D. 1991, Northwestern

Michael North

Assistant Professor of Management and Organizations
B.A. 2006, Michigan; M.A. 2010, Ph.D. 2013, Princeton

Glen A. Okun

Clinical Professor of Management and Entrepreneurship; Professor of Management Practice
B.A. 1984, Wesleyan; J.D., M.B.A. 1989, Harvard

Nathan C. Pettit

Associate Professor of Management and Organizations
B.S. 2002, Cornell; M.P.S. 2003, Cornell; M.A. 2006, Columbia, Ph.D. 2011, Cornell

L. Taylor Phillips

Assistant Professor of Management and Organizations
B.A. 2010, Stanford; Ph.D. 2016, Stanford

Joseph Porac

Professor of Management and Organizations; George Daly Professor of Business Leadership
B.S. 1974, Pittsburgh; Ph.D. 1979, Rochester

Robert M. Salomon

Associate Professor of Management and Organizations; Faculty Director, Executive MBA
B.B.A. 1995, Michigan; M.Phil. 2000, Ph.D. 2002, New York

Melissa A. Schilling
Herzog Family Professor of
Management and Organizations;
Mary Jacoby Faculty Fellow
B.S. 1990, Colorado; Ph.D. 1997,
Washington

Robert C. Seamans
Associate Professor of Management
and Organizations
B.A. 1996, Reed; M.B.A. 2001, Yale;
M.A. 2004, Boston; Ph.D. 2009,
California (Berkeley)

Zur B. Shapira
Professor of Entrepreneurship and
Management; William R. Berkley
Professorship in Entrepreneurship
B.Sc. 1970, M.Sc. 1972, Hebrew;
Ph.D. 1976, Rochester

Belén Villalonga
Professor of Management and
Organizations
B.A. 1991, Colegio Universitario de
Estudios Financieros (Madrid); M.A.
1998, California (Los Angeles); Ph.D.
2000, Universidad Complutense
(Madrid); Ph.D. 2001, California (Los
Angeles)

Batia M. Wiesenfeld
Professor of Management and
Organizations; Andre J.L. Koo
Professor of Management;
Department Chair, Management &
Organizations (until 2018)
B.A. 1988, Ph.D. 1996, Columbia

Marketing

Adam Alter
Associate Professor of Marketing
B.Sc. 2004, New South Wales; M.A.
2006, Ph.D. 2009, Princeton

Henry Assael
Professor of Marketing; Director,
NYU Stern/CBS Media Analytics
Initiative
B.A. 1957, Harvard; M.B.A. 1959,
Pennsylvania; Ph.D. 1965, Columbia

Alixandra Barasch
Assistant Professor of Marketing
B.S. 2008, Duke; Ph.D. 2016,
Wharton

Andrea Bonezzi
Assistant Professor of Marketing
B.S., Parma (Italy); M.S., Bocconi
(Italy); Ph.D. 2012, Northwestern

Bruce Buchanan
Affiliated Professor of Marketing;
C. W. Nichols Professor of
Business Ethics; Director, Markets,
Ethics, and Law Program
B.S. 1977, Massachusetts Institute of
Technology; Ph.D. 1983, Columbia

Xinyu Cao
Assistant Professor of Marketing
B.S. 2011, Tsinghua; M.S. 2013,
California (Berkeley); Ph.D. 2018,
M.I.T.

Jeffrey A. Carr
Clinical Professor of Marketing and
Entrepreneurship
B.A. 1978, Wright State; M.B.A.
1986, Tulane

Yuxin Chen
Affiliated Professor of Marketing;
NYU Shanghai; Global Network
Distinguished Professor of Business
B.S. 1992, Fudan University;
M.S.B.A. 1997, Washington
University in St. Louis; Ph.D. 1999,
Washington University in St. Louis.

Kim P. Corfman
Professor of Marketing; Vice Dean
for MBA Programs & Online
Education
B.A. 1977, Princeton; M.B.A. 1982,
Ph.D. 1985, Columbia

C. Samuel Craig
Catherine and Peter Kellner
Professor of Entrepreneurship and
Arts and Media Management;
Director, Entertainment, Media,
and Technology Program; Professor
of Marketing
B.A. 1965, Westminster College; M.S.
1967, Rhode Island; Ph.D. 1971,
Ohio State

John A. Czepiel
Emeritus Professor of Marketing
B.S. 1964, Illinois Institute of
Technology; M.S. 1972, Ph.D. 1972,
Northwestern

Daria Dzyabura
Assistant Professor of Marketing
B.S. 2007, Ph.D. 2012, Massachusetts
Institute of Technology

Tülin Erdem
Leonard N. Stern Professor of
Business; Professor of Marketing;
Research Director, Center for
Digital Economy Research,
Chairperson, Department of
Marketing
B.A. 1986, Bogaziçi (Turkey); M.A.
1987, Ph.D. 1993, Alberta

Scott Galloway
Professor of Marketing
B.A. 1987, California (Los Angeles);
M.B.A. 1992, California (Berkeley)

Anindya Ghose
Affiliated Professor of Marketing
B. Tech 1996, Regional Engineering
College; M.B.A. 1998, Indian
Institute of Management; M.S. 2002,
Carnegie Mellon; Ph.D. 2004,
Carnegie Mellon

Eric A. Greenleaf
Professor of Marketing
B.S. 1977, New Hampshire; M.B.A.
1981, Ph.D. 1986, Columbia

Paul Hardart
Clinical Professor of Marketing
B.A. 1986, College of the Holy Cross;
M.B.A. 1993, Kellogg

Masakazu Ishihara
Associate Professor of Marketing
B.S. 2000, Wisconsin-Madison; M.S.
2004, Wisconsin-Madison; Ph.D.
2011, Toronto

Minah Jung
Assistant Professor of Marketing
B.A. 2001, University of Chicago;
M.B.A. 2009, NYU Stern; Ph.D.
2015, Berkeley

Justin Kruger
Professor of Marketing
B.S. 1993, Santa Clara; Ph.D. 1999,
Cornell

Al Lieberman
Albert Gallatin Clinical Professor
of Business; Clinical Professor of
Marketing; Executive Director,
Entertainment, Media, and
Technology Program; Professor of
Management Practice
B.S. 1960, Cornell; M.B.A. 1963,
New York

Xiao Liu
Assistant Professor of Marketing
B.S. 2010, Tsinghua; M.S. 2012,
Carnegie Mellon; Ph.D. 2015,
Carnegie Mellon

Durairaj Maheswaran
Paganelli-Bull Professor of
Marketing and International
Business
B.Tech. 1973, Madras; M.B.A. 1976,
Indian Institute of Management;
Ph.D. 1987, Northwestern

Geeta Menon
Dean, Undergraduate College;
Abraham Krasnoff Professor of
Global Business; Professor of
Marketing
B.A. 1981, M.A. 1983, Madras; Ph.D.
1991, Illinois

Tom Meyvis
Professor of Marketing;
Coordinator, Ph.D. Program in
Marketing; Peter Drucker Faculty
Fellow
Licentiaat 1996, Catholique de
Louvain (Belgium); Ph.D. 2001,
Florida

Vicki G. Morwitz
Harvey Golub Professor of
Business Leadership; Professor of
Marketing
B.S. 1983, Rutgers; M.S. 1986,
Polytechnic; M.S. 1989, Ph.D. 1991,
Pennsylvania

Eitan Muller
Professor of Marketing
B.Sc. 1973, Israel; M.B.A. 1975,
Ph.D. 1977, Northwestern

Sunder Narayanan
Clinical Professor of Marketing
B.Sc. 1980, Indian Institute of
Technology; Post-Grad Diploma
1982, Indian Institute of
Management; M.Phil. 1990, Ph.D.
1990, Columbia

Priya Raghubir
Dean Abraham L. Gitlow Professor
of Business; Professor of Marketing
B.A. 1983, St. Stephen's College
(Delhi); M.B.A. 1985, Indian Institute
of Management; M.Phil. 1993, Ph.D.
1994, New York

Vishal Singh
Associate Professor of Marketing
B.A. 1992, Delhi; M.S. 1997, Iowa
State; Ph.D. 2003, Northwestern

Joel H. Steckel
Vice Dean, Doctoral Education;
Professor of Marketing
B.A. 1977, Columbia; M.B.A. 1979,
M.A. 1980, Ph.D. 1982, Pennsylvania

Yaacov Trope
Affiliated Professor of Marketing;
Professor of Psychology
B.A. 1970, Tel Aviv; M.A. 1972;
Ph.D. 1974, Michigan

Raluca Ursu
Assistant Professor of Marketing
B.A. 2010, Mount Holyoke; M.A.
2012, University of Chicago; Ph.D.
2016, University of Chicago

Jared Watson
Assistant Professor of Marketing
B.A. 2009, Washington; Ph.D. 2018,
Maryland

Luke Williams
Executive Director of the W.R.
Berkley Innovation Lab; Clinical
Associate Professor of Marketing
and Entrepreneurship
B.Tech. 1993, Monash (Australia)

Russell S. Winer
William H. Joyce Professor of
Marketing; Deputy Chair,
Department of Marketing
B.A. 1973, Union College; Ph.D.
1977, Carnegie Mellon

Operations Management Group

Mor Armony
Professor of Information,
Operations, and Management
Sciences
B.S. 1993, M.S. 1996, Hebrew; M.S.
1997, Ph.D. 1999, Stanford

Arash Asadpour
Assistant Professor of Operations
Management
B.S. 2005, Sharif University of
Technology; Ph.D., Stanford

Harry G. Chernoff
Clinical Professor of Information,
Operations, and Management
Sciences
B.A. 1968, M.S. 1975, Ph.D. 1985,
New York University Leonard N.
Stern School of Business

Maxime Cohen
Assistant Professor of Information,
Operations, and Management
Sciences
B.S. 2006, Technion – Israel Institute
of Technology; M.S. 2009, Technion-
Israel Institute of Technology; Ph.D.
2015, Massachusetts Institute of
Technology

Srikanth Jagabathula
Associate Professor of Information,
Operations, and Management
Sciences
B.Tech. 2006, Indian Institute of
Technology (Bombay); M.S. 2008,
Ph.D. 2011, Massachusetts Institute
of Technology

Ilan Lobel
Associate Professor of Information,
Operations, and Management
Sciences
B.S. 2004, Pontificia Universidad
Catolica de Rio de Janeiro (Brazil);
Ph.D. 2009, Massachusetts Institute
of Technology

Praveen Nayar
Associate Professor of Operations
Management
B.Tech. 1978, Indian Institute of
Technology; M.B.A. 1981, Indian
Institute of Management; Ph.D. 1988,
Michigan

Michael Pinedo
Julius Schlesinger Professor of
Operations Management
M.S. 1973, Delft (Netherlands); M.S.
1975, Ph.D. 1978, California
(Berkeley)

Joshua Reed
Associate Professor of Information,
Operations, and Management
Sciences
B.S. 2000, Illinois; Ph.D. 2007,
Georgia Institute of Technology

Wenqiang Xiao
Associate Professor of Information,
Operations, and Management
Sciences
B.S. 1999, Tsinghua (China); Ph.D.
2002, Hong Kong University of
Science and Technology; Ph.D. 2006,
Columbia

Eitan Zemel
W. Edwards Deming Professor of
Quality and Productivity;
Associate Vice Chancellor For
Strategy and Dean of Business,
NYU Shanghai; Vice Dean of
Global and Executive Education,
NYU Stern
B.S. 1970, Hebrew; M.S. 1972,
Weizmann Institute of Science; Ph.D.
1976, Carnegie Mellon

Jiawei Zhang
Professor of Information,
Operations, and Management
Sciences
B.S. 1996, M.S. 1999, Tsinghua
(China); Ph.D. 2004, Stanford

Statistics Group

Samprit Chatterjee

Professor Emeritus of Statistics
B.S. 1960, M.S. 1962, Calcutta; Ph.D. 1967, Harvard

Xi Chen

Assistant Professor of Statistics
Group in Information, Operations,
and Management Sciences

B.Sc. 2007, Xi'an Jiaotong (China);
M.S. 2009, Ph.D. 2013, Carnegie
Mellon

Rohit S. Deo

Professor of Statistics and
Operations Research; Robert A.
Miller Faculty Fellow

B.S. 1988, Fergusson College (India);
M.S. 1990, Poona (India); Ph.D. 1995,
Iowa State

Halina Frydman

Associate Professor of Statistics and
Operations Research

B.Sc. 1972, Cooper Union; M.A.
1974, M.Phil. 1976, Ph.D. 1978,
Columbia

Clifford M. Hurvich

Professor of Statistics and
Operations Research; Research
Professor of Information,
Operations, and Management
Sciences

B.A. 1980, Amherst College; M.A.
1982, Ph.D. 1985, Princeton

Peter Lakner

Associate Professor of Statistics and
Operations Research

B.A. 1978, M.A. 1980, Eötvös Loránd
(Budapest); Ph.D. 1989, Columbia

Joshua Loftus

Assistant Professor of Information,
Operations and Management
Sciences

B.S. 2009, Western Michigan; M.S.
2011, Rutgers; Ph.D. 2016, Stanford

Edward L. Melnick

Professor of Statistics

B.A. 1960, Lehigh; M.S. 1963,
Virginia Polytechnic Institute; Ph.D.
1970, George Washington

Joel Owen

Professor Emeritus of Statistics

B.A. 1956, Yeshiva; M.A. 1957,
Boston; Ph.D. 1966, Harvard

Patrick Perry

Assistant Professor of Statistics
Group in Information, Operations,
and Management Sciences
B.S. 2003, Stanford; M.S. 2004,
Stanford; Ph.D. 2009, Stanford

Melvin F. Shakun

Professor Emeritus of Statistics and
Operations Research; Adjunct
Professor of Operations
Management

B.M.E. 1950, City College (CUNY);
M.S. 1951, Eng.Sc.D. 1953, Columbia

Gary A. Simon

Professor Emeritus of Statistics

B.S. 1966, Carnegie Mellon; Ph.D.
1972, Stanford

Jeffrey S. Simonoff

Professor of Statistics; Robert
Stansky Research Faculty Fellow
B.S. 1976, SUNY (Stony Brook);
M.Phil. 1978, Ph.D. 1980, Yale

Aaron Tenenbein

Professor of Statistics; Director,
Actuarial Science Program

B.S. 1965, Manitoba; M.A. 1966,
Ph.D. 1969, Harvard



Admission

Applicants to the Undergraduate College of the Leonard N. Stern School of Business are admitted as first year and transfer students. The applicant's capacity for successful undergraduate work is measured through careful consideration of secondary school and/or college records; scores on standardized tests; recommendations from guidance counselors, teachers, and oth-

ers; and the personal essay.

Each applicant is reviewed carefully to identify academic strength, potential for intellectual growth and creativity, and promise of fully utilizing the special offerings of the University and the city.

Each applicant's record is considered objectively and is evaluated for participation in extracurricular activities and community services, in addition to scholarly pursuits.

NYU Office of
Undergraduate Admissions
admissions@nyu.edu
admissions@nyu.edu 212-998-4500

Stern welcomes a diversity of undergraduates from all economic, social, and geographic backgrounds. Applicants who are neither U.S. citizens nor permanent residents should see the *Applicants with International Credentials* section on page 94.

RECOMMENDED HIGH SCHOOL PREPARATION

The quality of an applicant's secondary school record is considered to be more important than a prescribed pattern of courses. Sound preparation, however, should include English, with heavy emphasis on writing; social studies; foreign language; mathematics; and laboratory sciences. The Admissions Committee pays particular attention to the number of honors, AP, and IB courses the applicant has completed in high school. The minimum requirements for consideration are:

- 4 years of English (with heavy emphasis on writing)
- 3-4 years of academic mathematics (to include pre-calculus*)
- 2-3 years of foreign language**
- 3-4 years of laboratory sciences
- 3-4 years of social studies

Students most competitive for admission will exceed these minimums. It is strongly recommended that students continue mathematics and language courses in their senior year of high school. For required testing, see page 93.

THE ADMISSION PROCESS

All candidates for admission to the University should send the following to the Undergraduate Admissions Processing Center, New York University, 383 Lafayette Street, New York, NY 10003:

- a. The Common Application (online only) and the Common Application Supplement are required.
- b. Nonrefundable \$80 application fee.
- c. Official high school and/or college records for academic credit already earned (and General Educational Development test scores if applicable).
- d. All required testing should be completed and results forwarded electronically by one testing agency to the Undergraduate Admissions Processing Center.
- e. Recommendations.
- f. Personal Statement/Essay.

Candidates are urged to complete and file their applications by the stated deadline (see page 93 for application filing deadlines). The Office of Undergraduate Admissions reserves the right to substitute or waive particular admissions requirements at the discretion of the Admissions Committee.

First year candidates for September admission are notified

approximately April 1. Early Decision I candidates are notified beginning in mid-December. Early Decision II candidates are notified on or after February 15. Transfer candidates for September admission are notified on a rolling basis beginning in mid-April.

CAMPUS VISITS

All prospective students and their parents are invited to visit the New York University campus. Opportunities to tour the University and to meet students and faculty are available to interested students.

Both high school and college students wishing to discuss the choice of a college, the transfer process, or academic programs are invited to attend an information session conducted by the Office of Undergraduate Admissions at the Jeffrey S. Gould Welcome Center, located at 50 West 4th Street. The Office of Undergraduate Admissions holds daily information sessions and conducts campus tours Monday through

*Students must be calculus-ready.

**Applicants to the BPE program are encouraged to have 3-4 years of a foreign language.

Friday except during University holidays. Visit the undergraduate admissions website at admissions.nyu.edu or call 212-998-4550 to make an appointment for an information session and tour.

Although interviews are not available, a visit to the campus is strongly recommended. It is suggested that arrangements be made several weeks prior to visiting the campus.

NYU GUEST ACCOMMODATIONS

Prospective students and their families visiting New York University are invited to stay at the Club Quarters, a private hotel convenient to the University. Club Quarters Downtown, a 280-room private first-class business hotel, is located in the Wall Street area of Manhattan. By special arrangement with NYU, it offers moderately priced, quality accommodations for University-affiliated guests. Features include a customized NYU floor and lounge decorated to highlight the University's presence in New York. Rates are well below those for comparable accommodations in Manhattan. On weekends, visitors are welcome to use Club Quarters Midtown. Near Fifth Avenue, it is close to shopping, Broadway theaters, and Rockefeller Center. For information and reservations, call 212-575-0006 or visit nyu.edu/about/visitor-information/hotels to learn of other nearby hotels.

REQUIRED TESTING

All first year applicants must submit official standardized test scores. Applicants for admission to NYU may submit one of the following:

- The SAT Reasoning Test (writing test and optional essay not required)
- The ACT (writing test not required)
- Three SAT Subject Test scores (one in literature or the humanities, one in math or science, and one elective)
- International Baccalaureate (IB) Diploma
- Three IB higher-level exam scores if not an IB Diploma candidate
- Nationally accredited exam showing completion of secondary education
- Three AP exam scores (one in literature or the humanities, one in math or science, and one elective).

Applicants to the Stern School of Business who choose to submit SAT Subject Tests or AP Exam scores in place of the SAT or ACT must provide a score from a mathematics examination.

Note: The AP exams must be taken prior to high school senior year to be applicable during the admissions cycle. International students who are in an area where the ACT Writing Test is not offered must choose one of the other test score options.

If students have taken the SAT or ACT more than once, or if they have SAT Subject Test or Advanced Placement (AP) Test scores they wish to submit in support of their application, it is recommended they send in all of their scores. Using the requirement options above, the admissions office will use the combination of scores that best presents their candidacy.

It is recommended that students applying as regular decision first year students complete their testing by the November test date, and they *must* finish by the December test date. It is strongly recommended that early decision applicants complete all testing by the October test date, although November scores usually arrive in time to be considered.

Students whose native language is not English and whose primary language of instruction has not been English should also take the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). (See the *Applicants with International Credentials* section on page 94 for additional information.)

Official test scores should be sent directly to NYU from the testing agencies. The NYU code for the College Board (SAT Reasoning Test, SAT I, SAT Subject Tests, SAT II Examinations, and TOEFL) is 2562; the ACT code for NYU is 2838.

Detailed information on the SATs and Advanced Placement examinations may be obtained from the College Board, 45 Columbus Avenue, New York, NY 10023-6917; 212-713-8000; collegeboard.org. Detailed information on the ACT may be obtained from ACT, 500 ACT Drive, P.O. Box 168, Iowa City, IA 52243-0168; 319-337-1270; act.org.

ADMISSION APPLICATION FILING DEADLINES

First year students are considered only for fall (September) entry.

First year Early Decision I: *November 1*
First year Early Decision II: *January 1*
First year Regular Decision: *January 1*

NOTIFICATION DATES

Accepted applicants will be notified by the following dates:

First year Early Decision I: *December 15*
First year Early Decision II: *February 15*
First year Regular Decision: *April 1*

RESPONSE DEADLINES

Admitted students must respond by the following dates:

First year Early Decision I: *January 15*
First year Early Decision II: *March 15*
First year Regular Decision: *May 1*

FINANCIAL AID DEADLINES

First year Early Decision I: *November 15*
First year Early Decision II: *January 15*
First year Regular Decision: *February 15*

EARLY DECISION PLAN FOR HIGH SCHOOL SENIORS

NYU offers two Early Decision application options for first year applicants who are certain that NYU is their first-choice university. Students applying as Early Decision candidates receive their admission decision after December 15 (Early Decision I) or after February 15 (Early Decision II). The NYU Financial Aid Office uses the same methodology for determining financial aid for Early Decision candidates as they do for determining financial aid for Regular Decision candidates. Students are not offered more or less financial aid based on when they apply for admission.

NYU uses information students share with the University via the CSS/PROFILE (see *Financial Aid* on page 103) to provide admitted students with an estimated financial aid package after December 15. For Early Decision II candidates, this information is used to provide admitted students with an estimated financial aid package after February 15. Students are then provided with their official financial aid award in late April, assuming students have completed both the CSS/PROFILE and the Free Application for Federal Student Aid (FAFSA) by February 15.

Students can only be released from the Early Decision agreement if they believe their estimated financial aid package does not enable them to attend. Students must be aware that applying Early Decision does not enable them to compare financial aid packages from other universities. If comparing financial aid packages is necessary for a student, the student should apply under the Regular Decision program. NYU still reserves the majority of admission offers for students applying for

Regular Decision, so students should not feel pressured to apply Early Decision if finances are of concern. For further information regarding the decision to apply as an early decision candidate, see the Undergraduate Admissions website at admissions.nyu.edu.

TRANSFER APPLICANTS

Transfer applicants to Stern are considered for fall admission only (see *Admission Process* on page 92). Admission of external transfers is limited by space availability. Credit is granted for most collegiate work completed with a grade of C or better within the last ten years that satisfies degree requirements and that falls within the residency requirement, with the exception of certain courses of a vocational nature or courses not consistent with the educational objectives of the Stern Undergraduate College. Within these provisions, applicants from regionally accredited colleges are eligible for admission.

Except when specifically noted, the general procedures described for entering first year students apply to all applicants seeking to transfer from other two-year or four-year institutions. Transfer applicants must submit official credentials from all institutions attended, including secondary school transcripts. Transfer applicants who took the SAT or ACT exams while in high school should submit their test results as part of their application. Transfer applicants who did not take these examinations while in high school and have been in college less than one year must take one of these tests and submit their results to NYU.

To be considered for transfer admission to the Stern School of Business, a student must have completed (or be in the process of completing) one year and 30–32 semester hours at his or her current college or university. This does not include credit awarded by examination or earned at a previous school. Students who do not meet this requirement will not be considered for admission. Students wishing to transfer into the second/sophomore year should have completed the following courses (at a minimum) at their current institution:

- 1 semester of calculus or higher
- 1 semester of writing/composition (two semesters are preferred)

Students wishing to transfer into the third/junior year should have completed the requirements listed above for sophomores as well as the following courses (at a minimum) at their current institution:

- 1 semester of writing/English
- 1 semester of statistics (preferably with a calculus prerequisite)
- 1 semester of financial accounting
- 1 semester of management, marketing, or other introductory business-related course
- 1 semester of intermediate-level microeconomics

The Stern School of Business does not consider applications from students who would be incoming seniors.

Please note that completion of these prerequisite courses at a student's current institution does **NOT** guarantee transfer of credit. Official approval of transfer credit takes place after admission and evaluation of previous coursework by the Undergraduate College. Also, certain business courses (i.e., statistics, marketing, and finance) will require passing a Stern proficiency exam after admission for determination of credit/equivalency.

All degree candidates in Stern must complete at least 64 units of coursework in residence at Stern. For further information regarding the external transfer process, see the Undergraduate Admissions website at admissions.nyu.edu.

TRANSFER APPLICANTS WITHIN THE UNIVERSITY

Students who wish to transfer from one school to another within the University must file an Internal Transfer Application form online at admissions.nyu.edu prior to the March 1 application deadline. (Stern accepts transfers in the fall only.) Students must complete (or be in the process of completing) one full year (32 points) of academic study in their original school of enrollment to be eligible for internal transfer. The Leonard N. Stern School of Business also considers for transfer admission students who enter NYU via transfer into another NYU school or college.

SPECIAL UNDERGRADUATE STUDENTS (VISITING)

The Stern Undergraduate College offers courses to non-matriculated students. See nyu.edu/admissions/visiting-students for program details and deadline information.

APPLICANTS WITH INTERNATIONAL CREDENTIALS

NYU welcomes applications for admission from international applicants all over the globe. NYU has one of the largest international student bodies in the world.

NYU offers limited financial support in the form of institutional grants/scholarships to international first year students admitted to our New York campus. Grants/scholarships are based upon a combination of financial need and academic merit. See nyu.edu/admissions/financial-aid-and-scholarships for further information. Because of the delays in receiving documents from outside the United States, all students who reside outside the U.S. are strongly encouraged to apply online at nyu.edu/admissions/undergraduate-admissions/applying-for-admission. Before beginning the application, please be aware that NYU does not consider applications from students who already possess a bachelor's degree in any academic area.

Student Visas and Orientation

Matters pertaining to student visas and international student orientation activities are administered by the Office of Global Services (OGS), 383 Lafayette Street; 212-998-4720. Specific information on the various resources provided by OGS can be found at nyu.edu/about/leadership-university-administration/office-of-the-president/office-of-the-protost/university-life/office-of-studentaffairs/office-of-global-services.

Instructions for Submitting International Documents

If a student's secondary education culminates in a maturity certificate examination, he or she must submit an official copy of the grades received in each subject of the examination. If a student is preparing for these examinations, he or she must submit predicted scores.

All documents submitted for review must be official; that is, they must be either originals or copies certified by authorized persons. (A "certified" copy is one that bears either an original signature of the registrar or other designated school official or an original impression of the institution's seal.) Uncertified copies are not acceptable. If these official documents are in a foreign language, they must be accompanied by an official English translation from an accredited translation agency.

NYU cannot assume responsibility for the return of any documents provided in support of application for admission. Do not submit diplomas or original single copies of records that cannot be replaced. Also, students should be certain to use their legal name exactly as it appears on their passport on all NYU applications and related documents and correspondence.

Required Testing for International Students

All first year applicants—domestic and international—must submit SAT, ACT, or AP standardized testing to NYU to be considered for admission. In addition to SAT, ACT, and IB results, NYU also considers a wide range of regional and national examinations to fulfill an applicant's standardized testing requirement. Students are required to submit official score reports directly from the appropriate testing agency. Consult NYU's admissions website to learn more about the required testing requirements for first year and transfer applicants. These pages apply to both domestic and international students and there are no exceptions whatsoever.

To locate an international testing center and date for the SAT or AP exams, visit the College Board SAT website at collegeboard.org. To locate an international testing center and date for the ACT, visit the ACT website at actstudent.org. To locate an international testing center and date for the AP, visit the College Board AP website at apstudent.collegeboard.org/takingtheexam/registering-for-exams.

Testing Your English Ability

All international applicants are required to submit TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) test results that have been issued within the past two years. Exemption from testing is given if a student's native language is English or if he or she has been living and studying in an English-speaking country for at least three years.

Students should take the TOEFL regardless of any other test scores they plan to submit to NYU. Taking the TOEFL will help ascertain English language proficiency and is used in conjunction with other standardized test scores to ascertain readiness for academic study.

NYU does not have any minimum test score requirements, but most competitive applicants score above 100 on the TOEFL Internet-based Test (iBT) and 7.5 or above on the IELTS. Information about the TOEFL may be secured by visiting the TOEFL website at ets.org/toefl and information on the IELTS is available on the IELTS website at ielts.org. The TOEFL code for NYU undergraduate admissions is 2562.

THE AMERICAN LANGUAGE INSTITUTE

Students who wish to improve their English language skills prior to applying to an undergraduate program at New York University are welcome to explore the American Language Institute housed at NYU. All students are further tested upon arrival at the University. If their ability to speak and write in English is not deemed to be of a sufficiently high level to register for academic study, students must register for non-credit English courses that entail additional expense and extend the time normally required to complete a degree.

Individuals who wish to obtain additional information about the American Language Institute are invited to visit the office of the American Language Institute weekdays throughout the year between the hours of 9 a.m. and 6 p.m. (Fridays until 5 p.m.). They may also visit the website, sps.nyu.edu/ali; write to The American Language Institute, School of Professional Studies, New York University, 7 East 12th Street, Suite 921, New York, NY 10003-7154; call 212-998-7040; fax 212-995-4135; or email ali@nyu.edu.

READMISSION OF FORMER STUDENTS

Any former student who has been out of attendance for more than two consecutive terms and who wishes to return to the college must apply for readmission. Applications for readmission are available online at admissions.nyu.edu. Requests for readmission should be received by *August 1* for the fall term, *December 1* for the spring term, and *April 1* for the summer term. Students who have attended another college or university since their last attendance at New York University must complete the regular application for undergraduate transfer student admission and submit an official transcript.

ADVANCED STANDING

The Stern School of Business Undergraduate College strongly recommends that students apply no more than 20 advanced standing points toward their degree requirements given that the Stern curriculum has been carefully designed to ensure both intellectual depth and breadth throughout four years. To apply for advanced standing, a student must

- submit proof of prior college-level coursework or advanced placement (AP) test results to the Undergraduate Admissions Processing Center or bring a

sealed envelope of the transcripts and/or the test results to the Stern Undergraduate Office of Academic Advising,

- meet with his or her adviser at Stern to discuss the implications thereof, and
- sign an Advanced Standing Agreement Form with the Stern Undergraduate Office of Academic Advising that is placed on file with the Stern Undergraduate College and the Office of the University Registrar.

Note: First year students are highly encouraged to consult with an academic adviser before they apply AP credit toward their first term at NYU.

CREDIT BY EXAMINATION

The Advanced Placement Program (AP-College Entrance Examination Board), the International Baccalaureate Program (IB), and the results of some foreign maturity certificate examinations enable undergraduate students to receive credit toward the bachelor's degree on the basis of performance in college-level examinations or proficiency examinations related to Stern's degree requirements, subject to the approval of the college.

The maximum number of units allowed toward the degree requirements that are a result of any possible combination of nonresidential special examination programs may not exceed 32. *Note: Stern strongly recommends that undergraduates apply no more than 20 units toward their degree requirements so they may fully experience the depth and breadth of the Stern curriculum.*

Advanced Placement Program (AP)

New York University participates in the Advanced Placement Program of the College Entrance Examination Board. In accordance with New York University policy, if test results are 4 or 5, depending on the subject examination (see chart on page 97), the student may receive college credit toward the degree and may not take the corresponding college-level course for credit. For additional information, consult the Office of Undergraduate Admissions at admissions.nyu.edu or call 212-998-4500.

International Baccalaureate (IB)

The Stern School recognizes for advanced standing credit most higher-level examinations passed with grades of 6 or 7 (exceptions include economics; see chart on page 98). No credit is granted for standard-level examinations. Official reports must be submitted to the Undergraduate Admissions Processing Center for review.

Maturity Certificate Examinations

The Stern Undergraduate College considers the results of certain foreign maturity certificate examinations for advanced standing credit, i.e., British GCE "A" levels or Cambridge Pre-U, French Baccalauréat, German Abitur, Italian Maturità, or the Federal Swiss Maturity Certificate. Stern may require that score reports be authenticated and reviewed by approved independent credential evaluation agencies. See chart of A-Level courses on page 99. For information regarding all other Maturity Certificate Exam course equivalents, please confer with a Stern academic adviser.

Limitations on Advanced Standing Credits (By Subject)

Mathematics:

All students entering Stern as first year students are required to fulfill a 4-unit mathematics course. Students who earn a 4 or 5 on the BC Calculus AP exam, or a 6 or 7 on the IB Higher Level Mathematics exam, or an A or B on the GCE A-level Math exam are eligible to apply those advanced standing credits to satisfy the Calculus I requirement.

The 4-unit requirement is typically fulfilled through the successful completion of Calculus I (MATH-UA 121), but for students with advanced standing, a higher-level course may be more appropriate for fulfilling the 4-unit requirement. Stern academic advisers are available to help those students with advanced standing make appropriate course selections. Advanced standing can be used to place into either Calculus II, Calculus III, or Linear Algebra.

Economics:

All students entering Stern as first year students are required to complete the 4-unit Microeconomics course (ECON-UB 1).

Students in the BS in Business program also complete a 4-unit international economics course, economics of Global Business (ECON-UB 11). No credit is awarded for any prior Economics coursework or AP economics exams.

Students in the BS in Business and Political Economy program complete Intro to Macroeconomics (BPEP-UB 2) in lieu of Economics of Global Business. They may be eligible to use a 5 on AP Macroeconomics, a 7 on IB HL Economics, or an A on GCE A-Level Economics to substitute for BPEP-UB 2.

Transfer students who do not enter Stern with an approved intermediate-level microeconomics course will be required to take either

Intermediate Microeconomics (ECON-UB 9) or Competitive Analysis (ECON-UB 15) at Stern or Intermediate Microeconomics (ECON-UA 10) at CAS to satisfy this requirement.

Statistics:

All students entering Stern are required to fulfill a 6-unit statistics requirement. Students are eligible to waive out of 4 of the 6 total unit requirements based on an appropriate score in AP Statistics. To be waived from the 4-unit portion of the requirement, eligible students may take a proficiency examination in the first semester they arrive on campus. Upon passing the examination, the 4 units from the usual statistics requirement are redistributed to electives. Regardless of advanced standing, all students must take the 2-unit course entitled Regression & Forecasting Models (STAT-UB 3).

Writing/Exposition:

All students entering Stern as first year students are required to complete an 8-unit writing sequence. No credit toward degree requirements is currently granted for prior coursework or examination results in writing or exposition.

THE ENROLLMENT PROCESS

To be enrolled, an admitted candidate must do the following:

1. Accept the University's offer of admission and pay the required non-refundable tuition deposit.
2. If applicable, pay the required non-refundable housing deposit.
3. Have his or her high school and college forward a final transcript(s) to the Undergraduate Admissions Processing Center. The transcript must specify date of graduation.
4. File a medical report.
5. Make an appointment with the individual school or division for academic advisement.
6. Pay balance of tuition and/or housing fees by the stipulated deadlines.
7. Register for classes when notified.

PLACEMENT EXAMINATIONS

Foreign language placement examination results may be used at Stern as follows: Students who wish to continue in a language previously studied in high school or in college must take a language placement test or submit scores from the College Entrance Examination Board or receive a recommendation for placement from the appropriate language department by taking their corresponding departmental placement

exams offered online or in person throughout the academic year. For further information, please speak with an academic adviser or the Director of Undergraduate Study of the appropriate language department.

FINANCIAL AID

After the admissions decision is made and the appropriate financial aid applications are submitted, a student's request for financial aid is considered.

All students applying for financial aid must file the Free Application for Federal Student Aid (FAFSA) and the CSS/PROFILE available at profileonline.collegeboard.com. Both the FAFSA and the CSS/PROFILE are required of all financial aid applicants to NYU's New York City campus who are U.S. Citizens and/or Permanent Residents. The CSS/PROFILE is required of all NYU Abu Dhabi applicants.

NYU's CSS/PROFILE deadlines are:
Early Decision I: November 15
Early Decision II: January 15
Regular Decision: February 15

For more information, see the NYU Financial Aid website at nyu.edu/financial.aid.

The Free Application for Federal Student Aid (FAFSA) is also required of all financial aid applicants to NYU's New York City campus who are U.S. Citizens and/or Permanent Residents. NYU Abu Dhabi applicants should not submit the FAFSA unless they are interested in one of NYU's schools and colleges on the New York City campus.

NYU's FAFSA deadline is February 15 (for both Early Decision and Regular Decision applicants to receive a final financial aid award in April). Students must include the NYU federal school code number 002785 in the school section of the FAFSA to ensure that their submitted information is transmitted by the processor to New York University.

New York State residents should also complete the separate application for the Tuition Assistance Program (TAP); for information visit nyu.edu/financial.aid. Students from other states may be required to complete separate applications for their state programs if their state grants can be used at New York University. For more detailed information regarding Financial Aid requirements and policies, see the Financial Aid section on page 103.

ADVANCED PLACEMENT EQUIVALENCIES

AP Examination & Grade Equivalent	Credits	NYU Course Equivalent ¹	Stern Course
Art History 4	4	No course equivalent	Elective
Art History 5	4	ARTH-UA 1 & ARTH-UA 2	Elective
Biology 4, 5 ²	8	BIOL-UA 11-12	Natural Science
Calculus AB 4, 5	No credit	No course equivalent	Placement Only
Calculus BC 4	4	MATH-UA 121	Mathematics
Calculus BC 5	8	MATH-UA 121 & MATH-UA 122	Mathematics
Chemistry 4, 5 ²	8	CHEM-UA 125,126/ CHEM 127, 128	Natural Science
Chinese Language & Culture 4, 5	4	EAST-UA 204	Elective
Computer Science A 4, 5	4	CSCI-UA 101	Elective
Computer Science Principles 4, 5	4	No course equivalent	Elective
English Language	No credit	No course equivalent	No Credit
English Literature 4, 5	4	No course equivalent	Elective
Environmental Science 4, 5	4	No course equivalent	Natural Science
European History 4, 5	4	No course equivalent	Elective
French Language & Culture 4, 5	4	FREN-UA 30	Elective
German Language & Culture 4, 5	4	GERM-UA 4	Elective
Human Geography	No credit	No course equivalent	No Credit
Italian Language & Culture 4, 5	4	ITAL-UA 12	Elective
Japanese Language & Culture 4, 5	4	EAST-UA 250	Elective
Latin 4, 5	4	CLASS-UA 6	Elective
Macroeconomics	No credit	No course equivalent	No Credit
Microeconomics	No credit	No course equivalent	No Credit
Music Theory	4	No course equivalent	Elective
Physics 1 4, 5 ²	4	No course equivalent	Natural Science
Physics 2 4, 5 ²	4	No course equivalent	Natural Science
Physics B 4 ^{2,3}	5	No course equivalent	Natural Science
Physics B 5 ²	10	No course equivalent	Natural Science
Physics C-E&M. 4, 5 ²	5 or 3	PHYS-UA 12 or PHYS-UA 93	Natural Science
Physics C-Mech. 4, 5 ²	5 or 3	PHYS-UA 11 or PHYS-UA 91	Natural Science
Politics (U.S. Gov't & Politics) 4, 5	4	No course equivalent	Elective
Politics (Comp. Gov't & Politics) 4, 5	4	No course equivalent	Elective
Psychology 4, 5	4	PSYCH-UA 1	Elective
Spanish Language & Culture 4, 5	4	SPAN-UA 4	Elective
Spanish Literature & Culture 4	4	SPAN-UA 100	Elective
Spanish Literature & Culture 5	4	SPAN-UA 100 or 200	Elective
Statistics 4,5	No credit	STAT-UB 1 ⁴	Placement Only
Studio Art	No credit	No course equivalent	No Credit
United States History 4, 5	4	No course equivalent	Elective
World History 4, 5	4	No course equivalent	Elective

¹ Students who intend to major or minor in a CAS department should contact the departmental adviser for information on how applying AP credit will impact their major or minor requirements in a given departmental area (e.g. refer to the Art History Department for information on how applying AP Art History credit may impact major or minor completion). For foreign language placement, students should contact the respective department for specific information.

² Students interested in prehealth should contact the prehealth advising department at prehealth@nyu.edu to find out how applying credit can impact your prehealth track.

³ Students may not receive credit for both Physics B and C, or for both of Physics 1 & 2 and Physics C.

⁴ See Stern Bulletin for information regarding Stern's policy on advanced placement credit for statistics.

INTERNATIONAL BACCALAUREATE (IB) EQUIVALENCIES

IB Examination (HL only) ¹	Score	Points	Course Equivalent ²
Arabic A or B	6, 7	8	No course equivalent
Biology	6, 7	8	BIOL-UA 11, 12
Business & Management	-	-	No course equivalent
Chemistry	6, 7	8	CHEM-UA 125, 126/127, 128
Chinese A	6, 7	8	No course equivalent
Chinese B	6, 7	8	EAST-UA 203, 204
Classical Greek	6, 7	8	CLASS-UA 9,10
Computer Science	6, 7	8	CSCI-UA 101, 102
Dance	-	-	No course equivalent
Design Technology	-	-	No course equivalent
Economics	-	-	No course equivalent
English A	6, 7	8	No course equivalent
Environmental Systems & Societies	6, 7	8	No course equivalent
Film	-	-	No course equivalent
French A	6, 7	8	No course equivalent
French B	6, 7	8	FREN-UA 11, 12
Geography	6, 7	8	No course equivalent
German A	6, 7	8	No course equivalent
German B	6, 7	8	GERM-UA 3, 4
Hebrew A	6, 7	8	No course equivalent
Hebrew B	6, 7	8	HBRJD-UA 3, 4
Hindi A, B	6, 7	8	No course equivalent
History	6, 7	8	No course equivalent
Indonesian A, B	6, 7	8	No course equivalent
Information Technology in a Global Society	-	-	No course equivalent
Italian A	6, 7	8	No course equivalent
Italian B	6, 7	8	ITAL-UA 11, 12
Japanese A	6, 7	8	No course equivalent
Japanese B	6, 7	8	EAST-UA 249, 250
Korean A	6, 7	8	No course equivalent
Korean B	6, 7	8	EAST-UA 256, 257
Latin	6, 7	8	CLASS-UA 5, 6
Mathematics	6, 7	4	MATH-UA 121
Macroeconomics	-	-	No course equivalent
Music	-	-	No course equivalent
Persian A or B	6, 7	8	No course equivalent
Philosophy	6, 7	8	No course equivalent ¹
Physics	6, 7	8	No course equivalent
Portuguese A	6, 7	8	No course equivalent
Portuguese B	6, 7	8	PORT-UA 3, 4
Psychology	6, 7	8	PSYCH-UA 1 (for 4 of the points)
Social & Cultural Anthropology	6, 7	8	ANTH-UA 1 (for 4 of the points)
Russian A	6, 7	8	No course equivalent
Russian B	6, 7	8	RUSSN-UA 3, 4
Spanish A	6, 7	8	No course equivalent
Spanish B	6, 7	8	SPAN-UA 3, 4
Theater	-	-	No course equivalent
Turkish A or B	6, 7	8	No course equivalent
Urdu A or B	6, 7	8	No course equivalent
Vietnamese A, B	6, 7	8	No course equivalent
Visual Arts	6, 7	8	No course equivalent

¹No credit is awarded for any Standard Level (SL) examinations

²Students who intend to major or minor in a CAS department should contact the departmental adviser for information on how applying AP credit will impact their major or minor requirements in a given departmental area (e.g. refer to the Art History Department for information on how applying AP Art History credit may impact major or minor completion). For foreign language placement, students should contact the respective department for specific information.

ADVANCED LEVEL (“A-LEVEL”) EQUIVALENCIES

A-Level Exam	Score	Points ¹	Course Equivalent
Afrikaans	B or higher	8	No course equivalent
Arabic	B or higher	8	No course equivalent
Art & Design	-	-	No course equivalent
Art, History of	B or higher	8	No course equivalent ²
Biology	B or higher	8	BIOL-UA 11, 12
Business	-	-	No course equivalent
Chemistry	B or higher	8	CHEM-UA 125, 126/127, 128
China Studies (English or Chinese)	-	-	No course equivalent
Chinese	B or higher	8	EAST-UA 203, 204
Classical Greek	B or higher	8	CLASS-UA 9,10
Classical Studies	B or higher	8	No course equivalent
Computing	B or higher	8	CSCI-UA 101, 102
Economics	-	-	No course equivalent
English Literature	B or higher	8	No course equivalent
French	B or higher	8	FREN-UA 11, 12
Geography	B or higher	8	No course equivalent
German	B or higher	8	GERM-UA 3, 4
Government & Politics	B or higher	8	No course equivalent
Hindi	B or higher	8	No course equivalent
History	B or higher	8	No course equivalent
Italian	B or higher	8	ITAL-UA 11, 12
Latin	B or higher	8	CLASS-UA 5, 6
Marathi	B or higher	8	No course equivalent
Mathematics	B or higher	4	MATH-UA 121
Physics	B or higher	8	PHYS-UA 11,12
Portuguese	B or higher	8	PORT-UA 3, 4
Psychology	B or higher	4	PSYCH-UA 1
Religious Studies	B or higher	8	No course equivalent
Sociology	B or higher	8	No course equivalent
Statistics	-	-	-
Spanish	B or higher	8	SPAN-UA 3, 4
Tamil	B or higher	8	No course equivalent
Telugu	B or higher	8	No course equivalent
Urdu	B or higher	8	No course equivalent

¹ Students who intend to major or minor in a CAS department should contact the departmental adviser for information on how applying credit will impact their major or minor requirements in a given departmental area (e.g. refer to the Art History Department for information on how applying AP Art History credit may impact major or minor completion). For foreign language placement, students should contact the respective department for specific information.

² A score of B on History of Art does not count toward the major or minor in art history or exempt students from either ARTH-UA 1 or 2. A score of A exempts art history majors from ARTH-UA 1 and 2, and 4 of the 8 credits count as one course toward the major. A Level credits never count toward the minor.



Tuition, Fees, & Financial Aid

Tuition & Fees

Following is the schedule of fees established by the Board of Trustees of New York University for the academic year 2017-2018. The Board of Trustees reserves the right to alter this schedule without notice.

Note that the registration and services fee covers memberships and dues to the student's class organization, and entitles the student to membership in such University activities as are supported by this allocation and to receive regularly those University and college publications that are supported in whole or in part by the student activities fund. It also includes the University's health services, emergency and accident coverage, and technology fee.

All fees are payable at the time of registration. The Office of the Bursar is located at 383 Lafayette Street. Checks and drafts are to be drawn to the order of *New York University* for the exact amount of the tuition and fees required. In the case of overpayment, the balance is refunded on request by filing a refund application in the Office of the Bursar.

Students can use the NYU Electronic Suite (eSuite) for e-bill, e-payment, and e-refunds. Students can access their eSuite account via a single sign-on by logging onto the Albert Student Center using their NYU Net

ID and Password. Once in the Albert Student Center, students should click on the *View Bursar Account* link located under the Finances menu. This links to the secure eSuite website. Students may also invite parents/authorized users to access their eSuite account.

A fee will be charged if payment is not made by the due date indicated on the student's statement. The unpaid balance of a student's account is also subject to an interest charge of 12% per annum from the first day of class until payment is received.

Holders of New York State Tuition Assistance Program Awards are allowed credit toward their tuition fees in the amount of their entitlement, provided they are New York State residents, are enrolled on a full-time basis, and present with their schedule/bill the Award Certificate for the applicable term.

Students who receive awards after registration will receive a check from the University after the New York State payment has been received by the Office of the Bursar and the Office of the University Registrar has confirmed eligibility.

Visit the NYU Bursar's website at nyu.edu/bursar/tuition.fees for up-to-date listings of the University's tuition and fees charges.

Basic Health Insurance Benefit Plan

Full-time students are automatically enrolled.* All others can refer to the Student Health Office Center website for other health benefit plans at nyu.edu/life/safety-health-wellness/student-health-center.

Other Fees & Charges

Fees are subject to change. Contact the NYU Bursar's Office for the most up-to-date information.

Application & Acceptance Fees:

A non-refundable fee of \$80 is required for all undergraduate applicants. A \$500 non-refundable deposit is due upon acceptance and will be credited to a student's account once registered for classes.

**A waiver option is available. Students automatically enrolled in the Basic Plan or the Comprehensive Plan can change between plans or waive the plan entirely (as long as they show proof of other acceptable health insurance).*

Credits Enrolled	Tuition	Registration & Services Fees	Total
1	\$1,426.00	\$479.00	\$1,905.00
2	\$2,852.00	\$546.00	\$3,398.00
3	\$4,278.00	\$613.00	\$4,891.00
4	\$5,704.00	\$680.00	\$6,384.00
5	\$7,130.00	\$747.00	\$7,877.00
6	\$8,556.00	\$814.00	\$9,370.00
7	\$9,982.00	\$881.00	\$10,863.00
8	\$11,408.00	\$948.00	\$12,356.00
9	\$12,834.00	\$1,015.00	\$13,849.00
10	\$14,260.00	\$1,082.00	\$15,342.00
11	\$15,686.00	\$1,149.00	\$16,835.00
12 to 18*	\$24,253.00	\$1,261.00	\$25,514.00
19	\$25,679.00	\$1,328.00	\$27,007.00
20	\$27,105.00	\$1,395.00	\$28,500.00
Stern Academic Support			
Fee (per term):	12 or more units:	\$495.00 flat charge	
* Students must be enrolled in 12-18 units per term to be considered full-time.			

Course Fees:

Certain courses charge additional fees assessed at the time of registration for that particular course.

Finance Charge:

A Finance Charge will be imposed on unpaid student accounts from the first day of classes until the outstanding balance is paid in full. The amount of the finance charge is determined by applying a periodic rate of 1% per month to the "average daily balance" of the student's account. The corresponding annual percentage rate is 12%.

Housing & Meal Plan Fees:

On-campus housing rates for undergraduate and graduate students and dining plan information are available through the NYU Office of Residential Life & Housing Services at nyu.edu/students/student-information-and-resources/housing-and-dining/on-campus-living. A non-returnable housing deposit of \$1,000 is due upon acceptance.

International Student Fee:

New York University policy requires the \$90 International Student Fee to be charged to an international student every time the student registers for classes. This means the student will be charged for registration in the fall semester and again in the spring semester. If the student chooses to enroll for summer classes, the student will be charged only once for the summer.

Late Registration Fee:

Initial registration commencing with the second week of classes in the fall or spring semester will incur a late registration fee of \$50.

Maintaining Matriculation Fee:

Students who are not enrolled in any classes, but are maintaining matriculation for the term are required to pay a \$489 maintaining matriculation fee per term. A non-refundable registration and services fee of \$489 is applicable per term. The total of both fees to maintain matriculation is \$958.

Replacement ID Charge:

Students who receive a replacement ID card from the Office of Public Safety are assessed a \$25 charge.

PAYMENT PLANS

Deferred Payment Plan:

The Deferred Payment Plan allows students to pay 50% of their net bal-

ance due for the current term on the payment due date and defer the remaining 50% until later in the semester. This plan is available to students who meet the following eligibility requirements:

- They are matriculated and registered for six or more units.
- They are without a previously unsatisfactory University credit record.
- They are not in arrears for any University charge or loan.

The plan includes a nonrefundable application fee of \$50.00 which is to be included with the initial payment on the payment due date. Interest at a rate of 1% per month on the unpaid balance will be assessed if payment is not made in full by the final installment due date. A late payment fee of \$25 per installment will be assessed on any late payments.

A separate deferred payment plan application and agreement is required for each semester this plan is used. The Deferred Payment Plan is available via eSuite. Log onto eSuite and click the "Payment Plans" tab. For additional information, visit the Office of the Bursar website at nyu.edu/bursar/paymentplans or call 212-998-2806.

HigherOne TuitionPay Plan:

TuitionPay is a payment plan administered by HigherOne. This interest-free plan allows for all or a portion of a student's educational expenses (including tuition, fees, room, and board) to be paid in monthly installments.

The traditional University billing cycle consists of one large lump sum payment due at the beginning of each semester. TuitionPay is a budget plan that enables a family to divide payments over the course of the academic year. By enrolling in this plan, students spread fall semester tuition payments over a four-month period (June through September) and spring semester tuition payment over another four-month period (November through February).

With this plan, students budget the cost of tuition and/or housing after deducting any financial aid received and/or any payments made directly to NYU.

A nonrefundable enrollment fee of \$50.00 is required when applying for the fall and spring plans. Students must enroll in both the fall and spring plans. Monthly statements are mailed by TuitionPay and all payments should be made directly to them. For additional information, visit the TuitionPay website at tuitionpay.higherone.com or call 800-635-0120.

Tuition Stabilization Plan:

The Tuition Stabilization Plan is available to matriculated full-time undergraduates who wish to stabilize their current level of tuition by adding a \$2,000 stabilization charge annually. The tuition rate can be stabilized for up to five consecutive academic years of full-time enrollment or to graduation, whichever comes first. The plan covers tuition and registration and services fees only.* Room, board, and other fees (such as academic support fees and insurance fees) are excluded from this plan and will be payable with each term bill, as incurred, at the then-current rate. This plan does not cover summer registration, January term session registration, or part-time enrollment. Charges for these enrollments will be based on the then-current tuition rates. A student transferring between schools of the University that have different tuition rates will be subject to an adjustment to future payments based on the tuition and fee schedules existing on the first semester covered under the agreement.

Fixed Payment Plan:

The Fixed Payment Plan is available to matriculated full-time undergraduate students who are not receiving any form of financial aid (including loans) or scholarship. The plan covers tuition, registration and services fees, room, and board. Increases in fees, such as academic support fees and insurance fees, will be payable each registration, as incurred, at the then-current rate. This plan does not cover summer registration, winter session registration, or part-time enrollment. Charges for these enrollments will be based on the then-current tuition rates. Refunds will be made in full for unused semesters and in accordance with the University refund policy for any semester in which a student is currently registered. Students transferring between schools of the University that have different tuition rates and those students who change on-campus residence halls, room types, and/or meal plans, also resulting in different rates, will be subject to adjustments based on differences existing during the first semester covered under the agreement.

ARREARS POLICY

The University reserves the right to deny registration and withhold all

*Stabilization payments include tuition (12 to 18 units per semester), registration and services fees, as well as the stabilization charge.

information regarding the record of any student who is in arrears in the payment of tuition, fees, loans, or other charges (including charges for housing, dining, or other activities or services) for as long as any arrears remain.

WITHDRAWAL & REFUND OF TUITION

A student who for any reason finds it impossible to complete a course for which he or she has registered should consult with an academic adviser. An official withdrawal must be filed either on Albert (through the first three weeks of the term only) or in writing on a completed Change of Program (drop/add) form with the Office of the University Registrar. *Note: An official withdrawal must be filed if a course has been canceled, and in this case the student is entitled to a refund of tuition and fees paid. Withdrawal from courses that have not been canceled does not necessarily entitle the student to a refund of tuition paid or a cancellation of tuition still due. A refund of tuition will be made provided such withdrawal is filed within the scheduled refund period for the term (see refund schedule on this page).*

Merely ceasing to attend a class does not constitute official withdrawal, nor does notification to the instructor. A stop payment of a check presented for tuition does not constitute withdrawal, nor does it reduce the indebtedness to the University. The nonreturnable registration fee and a penalty fee of \$20.00 for a stopped payment must be charged in addition to any tuition not canceled.

The date on which the Change of Program form is filed, not the last date of attendance in class, is considered the official date of withdrawal. It is this date that serves as the basis for computing any refund granted the student. The refund period (see schedule on this page) is defined as the first two calendar weeks of the term for which application for withdrawal is filed. The processing of refunds takes approximately two weeks.

A student may not withdraw from a class during the last three weeks of the fall or spring semester or the last three days of each summer session.

Exceptions to the published refund schedule may be appealed in writing to the refund committee of

The Refund Schedule below is for students who are **completely withdrawing from all courses** during fall and spring semesters only. *Note: The refund schedule is not applicable to students whose registration remains within the flat-fee range.*

100% of tuition and fees	Withdrawal on or before the official opening date of the term
100% of tuition only	Withdrawal on the second day after the official opening date of the term through the end of the first calendar week (<i>The first calendar week consists of the first seven calendar days beginning with the official opening date of the term, not the first day of the class meeting.</i>)
70% of tuition only	Withdrawal within the second calendar week of the term
55% of tuition only	Withdrawal within the third calendar week of the term
25% of tuition only	Withdrawal within the fourth calendar week of the term
NO REFUND	Withdrawal after completion of the fourth calendar week of the term

The Refund Schedule below is for students who are dropping classes, but will **remain enrolled in at least one course** during fall and spring semesters only.

100% of tuition and fees	Courses dropped during the first two weeks of the term
NO REFUND	Courses dropped after the first two weeks of the term

the school of registration and should be supported by appropriate documentation regarding the circumstances that warrant consideration of an exception. Exceptions are rarely granted. Students who withdraw should review the "Refunds" page on the Office of the Bursar's website at nyu.edu/bursar.

Federal regulations require adjustments reducing financial aid if a student withdraws even after the NYU refund period. Financial aid amounts will be adjusted for students who withdraw through the ninth week of the semester and have received any federal grants or loans. This adjustment may result in the student's bill not being fully paid. NYU will bill the student for this difference. The student will be responsible for payment of this bill before returning to NYU and will remain responsible for payment even if he or she does not return to NYU.

For any semester a student receives any aid, that semester will be counted in the satisfactory academic progress standard. This may require the student to make up units before receiving any further aid. Please review "Semester Course Loads" on page 106 and "Academic Standards" on page 112 for further information and to prevent jeopardizing future semesters of aid.

TUITION INSURANCE REFUND PROGRAM

NYU encourages all students to purchase tuition insurance in case a withdrawal after the refund period becomes necessary. Refunds are paid by GradGuard to the University for credit to the student account. Visit gradguard.com for more information.

Financial Aid

NYU Office of
Financial Aid
383 Lafayette Street
212-998-4444
nyu.edu/financial.aid

New York University awards financial aid in an effort to help students meet the difference between their own resources and the cost of education. All awards are subject to availability of funds and the student's demonstrated need. Renewal of assistance depends on annual reevaluation of a student's need, the availability of funds, the successful completion of the previous year, and satisfactory progress toward completion of degree requirements. In addition, students must meet the published filing deadlines.

The Office of Financial Aid Online

Visit Financial Aid & Scholarships at nyu.edu/financial.aid for full access to the information and procedures summarized here. Particular attention should be given to (1) Types of Financial Aid (for scholarships, grants, loans), (2) How to Apply, and (3) Applications & Forms. These topics are included on the navigation bar located on the home page.

APPLYING FOR FINANCIAL AID AT NYU

The following applications are the forms first year applicants must submit for any and all types of financial aid awarded at NYU, including all need-based and merit-based scholarships:

- CSS Profile—*all first year applicants regardless of citizenship status; applicants whose parents are separated, divorced, or unmarried and do not live together will need to have both parents submit their own separate CSS Profile applications.*
- CSS Profile Waiver Request for the Noncustodial Parent—*under certain circumstances, NYU will consider waiving the CSS Profile for the noncustodial parent if the information cannot be obtained.*
- Free Application for Federal Student Aid (FAFSA) — *only first year and transfer applicants who are U.S. citizens, permanent residents, or eligible non-citizens (i.e. refugees, etc).*
- New York State Tuition Assistance Program (TAP) - *only first year and transfer applicants who are New York State residents.*

NOTE: Applicants must file all their relevant applications by the deadlines to be considered for NYU scholarships and grants. All students will be reviewed for federal financial aid as long as they have a FAFSA on file, are

taking a minimum of six units, and are otherwise eligible.

Refer to the "How to Apply" area of the website for details specific to students applying for admission to NYU's Washington Square campus, NYU Abu Dhabi, and NYU Shanghai.

Undergraduate students seeking financial aid for summer courses may be considered for summer scholarship. For up-to-date information on summer scholarship, refer to the "How to Apply" section of the website and select "Summer Financial Aid". All students will be reviewed for federal financial aid as long as they have a FAFSA on file, are taking a minimum of six units during the summer term, and are otherwise eligible.

Important deadlines*:

For First Year Applicants

- Early Decision I:
CSS Profile—November 15
CSS Profile Waiver Request for the Noncustodial Parent—November 20
FAFSA—February 15
(recommended filing date of November 15)
- Early Decision II:
CSS Profile—January 15
CSS Profile Waiver Request for the Noncustodial Parent—January 20
FAFSA—February 15
(recommended filing date of January 15)
- Regular Decision:
CSS Profile—February 15
CSS Profile Waiver Request for the Noncustodial Parent—February 20
FAFSA—February 15

For Transfer Applicants

- Fall/Summer Admission:
FAFSA—April 1
(to receive a final financial aid award in May/June)
- Spring Admission:
FAFSA—November 1
(to receive a final financial aid award in December)

Eligibility for Financial Aid

To be considered for financial aid, students must be officially admitted to NYU or matriculated in a degree program and making satisfactory aca-

dem progress toward degree requirements. Financial aid awards are not automatically renewed each year. To renew undergraduate scholarships, students who are U.S. citizens, permanent residents, or eligible non-citizens must submit the FAFSA each year and international students must submit the CSS Profile each year by May 1. They must also continue to demonstrate financial need, make satisfactory progress toward degree requirements, and be in good academic standing.

Withdrawal

Students receiving federal student aid who withdraw completely may be billed for remaining balances resulting from the mandatory return of funds to the U.S. government. The amount of federal aid "earned" up to that point is determined by the withdrawal date and a calculation based upon the federally prescribed formula. Generally, federal assistance is earned on a pro-rata basis.

Scholarships and Grants

Eligibility for merit-based and/or need-based scholarships at NYU is determined upon entrance to the University based on prior academic strengths and, if applying for financial aid, a student's demonstrated financial need. Most undergraduate scholarships at NYU are based on a combination of need and merit and require that students file their financial aid applications on time for consideration.

University-Sponsored and University-Administered Programs

Through the generosity of its alumni and other concerned citizens, as well as from funds supplied by the federal government, the University is able to provide an extensive financial aid program for its students. Awards are competitive and are based on a combination of academic achievement, applicable test scores, and in most cases, financial need. No separate application is necessary.

** All deadlines are at 11:59 pm Eastern Standard Time. If all required applications are filed on time, admitted first year students should receive their financial aid package within 24-48 hours of being admitted.*

Federal Grants

Eligibility is based on submission of the FAFSA and no separate application is necessary.

State Grants

New York State offers a wide variety of grants and scholarships to residents, subject to the annual availability of funds. Application is made directly to the state and grants are awarded by the state. New York State programs are listed at besc.ny.gov.

Some students from outside New York State may qualify for funds from their own state scholarship programs that can be used at New York University. Contact individual state financial aid agencies to ask about program requirements and application procedures (call 800-433-3243 to obtain the phone number and address or search online at studentaidhelp.ed.gov). Upon receiving an eligibility notice from a state program, submit it immediately to the NYU Office of Financial Aid.

Scholarships & Grants from Other Organizations

Students may be eligible for a private scholarship or grant from an outside agency. Some sources to explore are employers, unions, professional organizations, and community and special interest groups. A number of extensive scholarship search resources are available free online and several are featured at nyu.edu/financial.aid. Students must notify the Office of Financial Aid if they receive funds from any of these sources. Financial aid must not exceed a student's estimated cost of attendance, including outside scholarships and grants.

Stern Scholarships for Matriculated Students

While the majority of scholarships are awarded to students at the time of admission, each year through the generosity of alumni and corporate donors, NYU Stern accepts applications for a limited number of special scholarships from matriculated students at the NYU Stern School of Business. Selection is based on a combination of financial need and criteria established with the donors and the school. In the spring semester, the Office of the Dean solicits applicants through announcements to the student body.

Loan Programs

For information about Federal Loans and Private (Non-Federal) Alternative Loans see "Types of Financial Aid" at nyu.edu/financial.aid.

Student Employment

Wasserman Center for Career Development
133 East 13th Street, 2nd Floor;
212-998-4730

nyu.edu/careerdevelopment

Most financial aid award packages include work-study. This means that students are eligible to participate in the Federal Work-Study Program and may earn up to the amount recommended in their award package. Work-study wages are paid directly to the student on a biweekly basis and are normally used for books, transportation, and personal expenses.

Resident Assistantships

Resident assistants reside in the residence halls and are responsible for organizing, implementing, and evaluating social and educational activities. Compensation is room and/or board, and/or a stipend. Visit nyu.edu/life/living-at-nyu/on-campus-living/staff/student-staff for applications and further information.

Tuition Remission

Beginning with the incoming class of fall 2018, undergraduate dependents of NYU employees with tuition remission may be eligible for scholarship above and beyond their tuition remission benefit if they would have been eligible for an amount greater than the tuition remission under the traditional scholarship review process. In order to be considered for his or her additional amount, students must file the CSS Profile and FAFSA on time and have financial need based on the CSS Profile. Details about tuition remission eligibility information can be obtained at nyu.edu/employees/benefit.

Employee Education Plans

Many companies pay all or part of the tuition of their employees under tuition refund plans. Employed students attending the University should ask their personnel officers or training directors about the existence of a company tuition plan. Students who receive tuition reimbursement and NYU employees who receive tuition remission from NYU must notify the Office of Financial Aid that they receive this benefit.

Optional Payment Plans

Payment plans can help manage educational expenses. Options are described on page 101 as well as at nyu.edu/bursar/payment.info/plans.

Student Responsibilities

- ✓ You must apply for financial aid each year to receive any and all types of financial aid awarded at NYU, including all need-based and merit-based scholarships.
- ✓ Consult nyu.edu/financial.aid for all financial aid application deadlines. Failure to meet the NYU deadline may result in a reduction of your aid eligibility.
- ✓ Use NYU Albert at albert.nyu.edu to accept your financial aid awards.
- ✓ If you submit documents to the Office of Financial Aid, please put your University I.D. number on each page and keep a copy for yourself. Do not submit originals.
- ✓ Be certain that you understand the conditions of the awards you accept. Contact the Office of Financial Aid if you have any questions.
- ✓ You must adhere to satisfactory academic progress standards to remain eligible for financial aid. The Office of Financial Aid will send reminders, but it is the student's responsibility to know and heed the requirements.
- ✓ You must notify the Office of Financial Aid immediately if you receive an award or financial aid from any additional source. A change in your resources may affect your eligibility for student aid.
- ✓ You must respond immediately to all requests from the Office of Financial Aid. Failure to comply may result in the cancellation of your aid.
- ✓ Consult with the Office of Financial Aid immediately if you reduce your academic program to fewer units, or if you are enrolled full-time (at least 12 units) but intend to begin part-time (less than 12 units). Also contact the Office of Financial Aid if there is a change in your housing status. A change in enrollment or housing status may affect the financial aid you receive.
- ✓ Be sure to notify the Office of the University Registrar if you move by updating your contact information via NYU Albert at albert.nyu.edu. We use the records of the Office of the University Registrar to administer financial aid.



Academic Advising, Registration, & Policies and Procedures

Academic Advising

Stern Office of Academic Advising
Tisch Hall, Suite 616
40 West Fourth Street
212-998-4020
stern.nyu.edu/ucadvising

STERN OFFICE OF ACADEMIC ADVISING

The Stern Office of Academic Advising is an important resource for undergraduates during their four years at Stern. Stern educates through in-classroom learning and co-curricular experiences, and the Stern Office of Academic Advising provides comprehensive guidance to help students design a well-rounded academic program to meet that goal. The office's professional staff partner with students from the start of their Stern career to map out their undergraduate experience, tailored to individual skills and interests.

The Stern Office of Academic Advising provides academic advising to Stern undergraduates and coordinates undergraduate programs independently and in partnership with key Stern and all-University offices to enhance academic, professional, and social development. The advising staff consists of well-qualified professionals eager to help students adjust to the academic and personal challenges of college life.

Stern offers one-on-one advising to all students to assist in curriculum planning as well as to address topics such as course scheduling, choosing a concentration, selecting a minor, study abroad planning, and participating in co-curricular activities. In addition to individual advising appointments, the office coordinates a series of student programming to supplement each student's academic experience.

The advising staff provides additional support to new students during their first term. At orientation, presentations are made concerning the curriculum, international study opportunities, the student code of conduct, student life, co-curricular activities, and student support services. Students are encouraged to meet with an academic adviser as often as they wish but at least once a semester (preferably prior to course registration).

STERN UNDERGRADUATE FACULTY AND TRACK CHAMPIONS

Each academic department and track has one or more faculty members responsible for advising Stern undergraduates regarding academic interests and career ambitions. All faculty and track champions have office hours dedicated to these special advising responsibilities. A listing of current faculty and track advisers can be found on the Stern Undergraduate College website at stern.nyu.edu/ucadvising.

PRELAW ADVISING

Stern's prelaw adviser is available to meet with students interested in a law career. Prelaw students should consult the Stern Undergraduate College advising website for pertinent information to help them decide whether to apply to and attend law school. Although there is no prescribed prelaw curriculum, there are several business and liberal arts courses that may interest students considering law school. Prelaw information sessions are offered in the fall, and students are encouraged to meet with the prelaw faculty adviser during their senior year to discuss the law school application process.

PREHEALTH ADVISING

Students interested in fulfilling requirements for postgraduate health careers – from medicine and dentistry to the allied-health professions – are encouraged to meet with the preprofessional Stern adviser as early in their academic career as possible. Prehealth students should also take advantage of the resources offered through the College of Arts & Science's Preprofessional Advisement Office, Silver Center, 100 Washington Square East, Room 901, 212-998-8160, prehealthb.cas.nyu.edu.

The program of study for a student interested in any of these areas minimally requires completion of the following courses: General Chemistry I and Lab (CHEM-UA 125), General Chemistry II and Lab (CHEM-UA 126); Principles of Biology I and II

(BIOL-UA 11, BIOL-UA12), Principles of Biology Lab (BIOL-UA 123); Organic Chemistry I and Lab (CHEM-UA 225), Organic Chemistry II and Lab (CHEM-UA 226); either Biochemistry I (CHEM-UA 881) or Protein Biochemistry (BIOL-GA 1045); and General Physics I and II (PHYS-UA 11, PHYS-UA 12). Students are also encouraged to take Writing the Essay (EXPOS-UA 121) as their core writing course and an additional English course as an elective.

Some professional schools may require additional courses. Stern students pursuing this path typically use all their elective space completing these requirements and may exceed the amount of units normally required for degree completion, which in turn may affect financial aid status. Note that being "premed" is not a concentration or minor and is not an irrevocable commitment.

THE ACADEMIC RESOURCE CENTER

The Academic Resource Center (ARC), located at 18 Washington Place, is the place to go when a student doesn't know where to turn with academic navigation questions. It offers a variety of academic support resources, including cross-school advising and peer tutoring through the University Learning Center, as well as referrals to other academic resources from its SMART Bar (ARC's information desk for questions about Student Mentoring, Academic Resources, and Tutoring). Additional resources at the ARC include computers and ITS printers, an Argo Tea Café, and a variety of study spaces. Also located in the Academic Resource Center are academic advising and support services for the Collegiate Science & Technology Entry Program and Higher Education Opportunity Program. For more information visit nyu.edu/students/undergraduates/academic-services/undergraduate-advisement/academic-resource-center; call 212-998-2ARC (2272); or email arc.advising@nyu.edu.

THE UNIVERSITY LEARNING CENTER

Stern students are also eligible to receive academic support through the University Learning Center (ULC), which has two convenient locations: the Academic Resource Center and University Hall. The ULC provides individual and group review sessions for specific courses as well as Academic Skills Workshops free of charge.

The ULC's mission is to assist students in developing the knowledge base, skills, and strategies that will help them become confident, independent, and active learners. Its various academic support services are intended to help students meet the challenge of NYU's rigorous academic standards.

Services offered by the ULC include:

- Individual and group tutoring sessions,
- Course-specific study groups,
- Examination review sessions,
- Study skills assessment,
- Workshops on academic effectiveness and time management, and

- Computer-assisted training.

For more information, visit the University Learning Center's website at nyu.edu/students/academic-services/undergraduate-advisement/academic-resource-center/tutoring-and-learning.

THE WRITING CENTER

The Writing Center helps students, faculty, and administrators who desire assistance with a particular writing assignment or want to generally improve their writing skills. Many people use the Center to have conversations with experienced writing consultants who can aid in understanding an assignment, developing a plan, or learning to edit, and who can offer suggestions about drafts in progress. Writing Center consultants do not proofread or edit papers. Consultations run from 30-45 minutes. For more information, visit cas.nyu.edu/eup/writing-center or contact the Writing Center, 411 Lafayette Street, 4th Floor, New York, NY 10003; 212-998-8866; writingcenter@nyu.edu.

THE MOSES CENTER

The Henry & Lucy Moses Center for Students with Disabilities provides comprehensive services and programs for undergraduate and graduate students with hearing and visual impairments, mobility impairments, learning disabilities and attention deficit disorders, chronic illnesses, and psychological impairments.

The Moses Center functions to determine qualified disability status and to assist students in obtaining appropriate accommodations and services. Services provided are designed to encourage independence and self-advocacy, backed by a comprehensive system of supports. For more information, visit nyu.edu/csd or contact The Moses Center, 726 Broadway, 3rd Floor, New York, NY 10003; 212-998-4980.

Registration

Separate and complete registration must be made for each term of work. New students are notified by the Stern Office of Academic Advising of registration procedures upon admission. Currently enrolled students should use Albert, the NYU registration and student information services website, to register for courses each term. This process occurs in April for the fall term and in November for the spring term. Announcements concerning these dates are advertised by the Office of the University Registrar as well as the Stern Office of Academic Advising. For each registration period, students are assigned a registration appointment time by the Office of the University Registrar that is determined based on the student's number of earned units at the time of registration. This appointment time appears in the student center in Albert. This personal date and time for registration is not subject to adjustment. Payment and other pertinent information are available through the Office of the Bursar. Refer to page 100 for more information on payments.

Students who wait to enroll in classes until the registration period immediately prior to the beginning of each semester are required to pay their tuition and fees to the Office of the Bursar within 48 hours of registering. Registration after the close of the stated registration periods must be approved by the Stern Office of Academic

Advising, Tisch Hall, Suite 616. A late registration fee is charged (see Refund Period Schedule on page 102).

SUMMER SESSIONS & JANUARY TERM

The 12-week summer is divided into two 6-week sessions. Students may choose from day and evening courses in either or both terms. As specified by a New York State Education Department regulation, a student who registers for both 6-week sessions may take a maximum of 16 units with the unit load for either session not exceeding 10 units. Matriculated students who wish to attend summer sessions are urged to take advantage of the registration advising period in February. Students may add courses through the third day of classes during each summer session and may withdraw from courses through the fourth week of classes. Summer courses are listed on Albert beginning in December. For more information, visit nyu.edu/summer.

January term occurs during the second part of the NYU winter recess. The session offers students the chance to enroll in one course. If a student wishes to enroll in more than one course for the January term, they may meet with an academic adviser to discuss it as an option. January term courses enable students to earn academic units (toward a concentration, minor, or elective) in courses that are

in high demand, to accelerate their degree completion, and to concentrate on personal interests. Matriculated students who wish to take courses during the January term are urged to take advantage of the registration advising period in October. For more information regarding registration timelines, course offerings, and tuition, visit nyu.edu/winter.

SEMESTER COURSE LOADS

Matriculated full-time students are expected to complete at least 32 units per academic year. For students receiving financial aid, completing fewer than 32 units in an academic year may jeopardize that aid. To be in good academic standing, students must complete a minimum of 24 units per academic year. Failure to maintain full-time standing prior to the final degree semester results in academic probation which is recorded on the transcript. Students are only permitted to register on a part-time basis (fewer than 12 units) during a summer session and/or the final semester of their degree program.

Permission from the Stern Office of Academic Advising is required if a student wishes to take more than 18 units in a given semester. Students who wish to do so must fill out the "Request to Increase Semester Credit Load" form and meet with an academic adviser for final approval once the form is filled out. Permission to

take more than 18 units per term is limited to students who have completed at least 32 units of work while matriculated at Stern and who have maintained a cumulative grade point average of 3.0 or better. First year students may be given permission to take more than 18 units in a semester only after completing one full semester of coursework and only if the student has a GPA of 3.5 or better. All students taking over 18 units in a given semester are subject to extra tuition and fees. Students enrolled in fewer than 12 units in their final semester or who exercise the option to increase their unit load at any point in their academic career are encouraged to visit the Office of Financial Aid and the Office of the Bursar to find out how their semester course load impacts their tuition costs or financial aid. In addition, international students who pursue an approved semester of either an increased course load or fewer than 12 units are encouraged to meet with the Office of Global Services to discuss any potential implications on their Visa status.

While the Stern curriculum only requires that students earn a minimum of 128 units to meet most concentration¹ and graduation requirements, students can take up to and count toward their GPA 144 units while at Stern. Courses taken in excess of 144 units that do not meet degree requirements will be discounted from the student's degree chronologically (i.e. the most recent course taken that does not satisfy degree requirements will be discounted). Students on financial aid, however, may not receive funding for any units taken over 128 that do not count toward graduation requirements. Students who must take an excess of 128 units to meet their graduation requirements are encouraged to contact the Office of Financial Aid.

ADD-DROP

Students may add and drop courses during designated periods. No classes may be added after the established deadlines.

WAITLISTS

During registration, most Stern courses will open a waitlist when a section of a particular course has closed. Students may use Albert to add themselves to a waitlist for a given course. Being wait-listed for a course does not guarantee admission into that course. Students are encouraged to register for an alternative course to ensure proper academic progress and satisfactory completion

of degree requirements. Albert provides students with various tools to assist with course adjustment and the waitlisting process. For an outline of those features and instructions, consult the Registrar's website at nyu.edu/students/student-information-and-resources/registration-records-and-graduation/registration/registering-on-albert.html.

Note that each school and/or academic department may have different waitlist policies. For non-Stern course-specific information, contact the appropriate department directly for assistance. Further details concerning the waitlist are made available from the Office of the University Registrar. Waitlists expire after the first two full weeks of classes at the beginning of each semester; at that time all students are removed from the waitlist.

WITHDRAWAL FROM COURSES

A student may officially withdraw from a course if continuation is made impossible for reasons beyond his or her control. Full semester courses dropped during the first two weeks of the term do not appear on the transcript. Those dropped from the beginning of the third week through the ninth week of the term are recorded with a grade of W on their transcript. After the ninth week, no one may withdraw from a course.²

Students who are ill or have a serious personal issue should contact the Stern Office of Academic Advising. An official request to withdraw from a course is made via Albert using the Class Withdrawal Request process. Students are required to meet with an academic adviser prior to receiving approval for a class withdrawal through the online process on Albert. Students who are under an ongoing disciplinary investigation may not petition to withdraw from a class during that semester without approval from the Stern Undergraduate College. Students should note that if withdrawing from a class results in a semester course load of fewer than 12 units, they may be placed on academic warning or academic probation. This may also have implications for students on financial aid and could impact international students' Visa status. (For more information, see Semester Course Loads on page 106 and Academic Standards on page 112).

AUDITING COURSES

The Stern Undergraduate College does not permit auditing of Stern undergraduate courses. Students may not attend courses for which they have not registered.

INDEPENDENT STUDIES

Students registering for Independent Study for a given semester or session must meet the deadlines set by each respective department. To be eligible for Independent Study, students must be Bachelor of Science candidates at the Stern School of Business Undergraduate College, have an overall GPA of at least 3.3, and junior or senior standing. Well in advance of the deadline, qualified students should fill out an Independent Study Authorization Form, which entails seeking approval for the project by both the department chair or co-chair and the faculty member who serves as instructor for the course.

Students who are approved are registered by their academic adviser for the 1-unit Independent Study course. Independent Study Authorization Forms can be obtained in the Stern Office of Academic Advising or on the Stern Undergraduate College advising website at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms.

MBA COURSES

Stern juniors and seniors with cumulative grade point averages of 3.5 or higher may apply to take specific MBA-level courses with the following conditions:

- All requests are subject to approval from the Stern Undergraduate Advising Office and the course department as well as subject to space availability. Students should not adjust their schedules until they are approved to take a course.
- Courses may not include those already being taught through the undergraduate program.
- A maximum of three undergraduates may enroll in a single MBA course per semester.
- Course content must be relevant to the student's area of study. (With approval, courses can fulfill concentration requirements or free electives.)

¹ Some Stern/CAS concentration/major combinations necessitate exceeding the 128 unit graduation requirement.

² Half-semester courses (or courses under a different class meeting calendar) may have different drop and withdrawal deadlines. Each semester, the Advising Office publishes an Academic Calendar outlining the specific deadlines for all courses scheduled throughout the semester.

- Prerequisites must be satisfied. (Undergraduate courses may count as a prerequisite.)
- MBA courses may not be taken on a pass/fail basis.

STUDY ABROAD REGISTRATION AND GRADING POLICIES

NYU Study Away Programs

Students are permitted to take up to two business courses at an NYU Study Away campus. Students who wish to take courses toward a CAS major or a cross-school minor are encouraged to submit written

approval from that particular department to the Stern Office of Academic Advising prior to their departure.

International Business Exchange Program (IBEX)

Students may take up to two courses toward a Stern concentration while abroad as part of the International Business Exchange Program (IBEX). Students earn letter or numeric grades abroad and must receive a passing grade according to the host institution's grading scale to transfer the units to their Stern curriculum. Grades for all IBEX courses are trans-

ferred back to a student's transcript with a pass/fail grade, and failing grades factor into a student's grade point average. IBEX participants are only permitted to take one additional pass/fail course at Stern after completing their semester abroad (for full Pass/Fail policy information, see page 111). Students who wish to take courses toward a non-Stern major or minor must receive approval in writing from that particular department and provide confirmation to the Stern Office of International Exchanges & Special Programs.

Policies & Procedures of the College

All policies and procedures are subject to change and students should always reference the Stern Undergraduate website for the most up-to-date policies.

Student Code of Conduct

At NYU Stern, we seek to engage our students, faculty, and alumni as life-long partners in the process of learning, debate, and discovery. Academic and personal integrity are central to this mission. As members of our community we commit to:

- 1) Show respect for every member of the NYU community and refrain from all forms of intimidation, harassment, and acts of prejudice that infringe upon the rights of other members of the community.
- 2) Exercise integrity in all aspects of our academic work including, but not limited to the preparation and completion of exams, papers, and all other course requirements by not engaging in any method or means that provides an unfair advantage.
- 3) a. Clearly acknowledge the work and efforts of others when submitting written work as our own. The incorporation of the work of others - including but not limited to their ideas, data, creative expression, and direct quotations (which should be designated with quotation marks), or paraphrasing thereof - must be fully and appropriately referenced using notations both in the text and the bibliography.
b. Submitting the same or substantially similar work in multiple courses, either in the same semester or in a different semester, without the express approval of all instructors is strictly forbidden. Limited quoting or paraphrasing is permissible so long as we clearly identify and reference, as we would the work of another, any quoted or closely paraphrased pas-

sages of our own previously written work, whether published or submitted for course credit at Stern or any other institution.

4) Demonstrate dignity and integrity in all aspects of our involvement with the School and University, including participation in sponsored organizations and activities, and situations in which we may be seen to represent the School or University. These activities and situations include but are not limited to, student organizations (including clubs, governments, and honor societies), conferences and meetings, student-organized and school-sponsored travel, interviews, and interactions with alumni.

5) Demonstrate sound judgment and integrity in the submission of documents, forms, and information to or on behalf of the School, University, or any member of those communities.

6) Work to preserve and be wise stewards of the University's resources and facilities and respect the personal property of other members of the NYU community.

7) Conduct ourselves as law abiding members of both the NYU community and our broader society - including but not limited to refraining from behaviors that infringe upon the rights of others or disrupt the educational process and acting in conformity with NYU and Stern policies and public law.

8) Refrain from behaving in ways that knowingly support, assist, or in any way attempt to enable another person to engage in any violation of the Code of Conduct. Our support also includes reporting any observed violations of this Code of Conduct or other School and University policies that are deemed to have an adverse effect on the NYU Stern community.

9) Carefully review and abide by the rules and policies of NYU as outlined in detail at nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/code-of-ethical-conduct and nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines, recognizing that being fully informed about NYU and Stern rules and codes governing civil behavior and academic integrity is an obligation of community membership.

As members of this community we understand that any violation of this Code of Conduct, whether committed knowingly or out of ignorance, can result in disciplinary action and may result in a sanction up to and including expulsion from New York University. The Student Code of Conduct was amended and approved by the Stern faculty in October 2011.

Membership in a global campus community such as NYU Stern requires mutual respect, consideration, and concern for the well-being of others as well as a significant degree of personal integrity and maturity. Students whose prior behavior has been determined through the University's or Stern's student conduct processes to have been disruptive to the University community and/or antithetical to these qualities may be precluded from participation in study away programs, Stern travel study courses, and Stern-sponsored conferences and/or competitions.

Plagiarism

Students are required to submit their own work. Ideas, data, direct quotations, paraphrasing, or any other incorporation of the works of others must be clearly referenced. To do otherwise constitutes plagiarism.

Examples of plagiarism include the following:

- 1) The use of other persons or services to prepare written work that is submitted as a student's own.
- 2) The use of previously or concurrently submitted papers or segments thereof written by other students or by the student himself or herself.
- 3) Submission of the same or very similar papers in different sections of multiple-section courses by collaborating students.

Students suspected of any form of plagiarism are subject to disciplinary action.

Examinations

All communication—written, oral, or otherwise—among students during examinations is forbidden except when approved by the instructor. The use of notes, books, other written materials, calculators, or other aids is forbidden except when approved by the instructor. Providing or receiving information about the content of an examination is forbidden except when approved by the instructor. The use of anyone else to take an examination for a student is forbidden. The above-mentioned items are intended to be illustrative of plagiarism and other forms of cheating. They are not all-inclusive.

Use of Technology

Calculators, mobile devices, personal computers, wireless devices, and/or any electronic device not explicitly permitted by the instructor:

The use of electronic devices in the classroom, including for taking examinations, is at the discretion of the instructor (permission may be communicated verbally or in writing). Students who use unapproved devices may be charged with academic misconduct.

Resources (Libraries and Computer Usage) Library:

Circulating library material may be borrowed only upon presentation of the student's own valid NYU photo ID. Noncirculating material (e.g., magazines, journals, and reference items) may not leave the library under any circumstances. Stealing or vandalizing library materials is forbidden.

As mentioned in the Stern Code of Conduct, students are expected to be familiar with and abide by the "University Student Conduct Policies," which sets basic rules and covers issues of academic freedom,

speaker invitations and demonstrations, and use of University facilities. "University Student Conduct Policies" covers the policy on affirmative action/equal opportunity and compliance with the Family Educational Rights and Privacy Act (P.L. 93-380). Students should also familiarize themselves with the University Guidelines on Bullying, Threatening, and other forms of Disruptive Behavior, which can be found at nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/bullying—threatening—and-other-disruptive-behavior-guidelines.

Judiciary Committee

The Stern Undergraduate Judiciary Committee is comprised of Stern upperclassmen and faculty. Stern faculty members are appointed by the Dean of the Undergraduate College or his/her designee. An application and interview process is held each year for interested students. Any member of the faculty, administration, or staff, or any student may file a complaint against an undergraduate student alleging a violation. Academic violations include but are not limited to cheating and plagiarism. A complainant must submit a complaint in writing or by email to the Deans' designee.

Non-academic violations will be referred to the University Office of Student Conduct & Community Standards for adjudication effective fall 2018. Information regarding the judicial process can be found at stern.nyu.edu/sites/default/files/assets/documents/con_038803.pdf.

Disciplinary Sanctions

Students are expected to familiarize themselves and comply with the rules of conduct, academic regulations, and established practices of NYU and Stern. Failure to abide by these codes may result in referral to the Judiciary Committee and/or the University Office of Student Conduct & Community Standards. The Committee may levy a range of penalties, including expulsion. If pursuant to such rules, regulations, or practices, the withdrawal of a student is required before the end of the term for which tuition has been paid, a refund will typically be made according to the standard schedule for refunds.

TRAVEL CODE OF CONDUCT & RESPONSIBILITIES

All students who travel with the Undergraduate College of the Stern School of Business are expected to

maintain the highest standards of professional conduct and integrity. Students must comply with all College and University policies and procedures governing student conduct (see the NYU Rules of Conduct at nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/university-policy-on-student-conduct and stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/code-of-conduct). As participants in school-sponsored travel, students are expected to commit to:

1. Show respect for every member of the NYU community by refraining from all forms of intimidation, sexual and physical harassment, and acts of prejudice that infringe upon the rights of other members of the community.
 2. Refrain from causing physical injury to yourself and others. Students will be held financially and legally responsible for any and all damage they inflict upon other persons.
 3. Refrain from causing damage to real or personal property of others. Students will be held financially and legally responsible for any and all damage they inflict upon the property of others.
 4. Preserve the quality of facilities that students may visit or reside at during their travels.
 5. Respect cultural differences. This includes observing the proper etiquette in business/social settings (e.g. being punctual for appointments, not speaking out of turn, etc.).
 6. Refrain from irresponsible behavior, including the inappropriate and/or excessive consumption of alcohol.
 7. Refrain from leaving the host city for any personal excursions or trips (unless organized by Stern).
 8. Refrain from operating motorized vehicles.
 9. Refrain from participating in risky athletic/recreational activities (i.e. scuba, parachuting, parasailing, etc.).
 10. Conduct yourself as a law abiding member of both the NYU community and our broader society—including but not limited to (a) refraining from behaviors that infringe upon the rights of others or disrupt the educational process, and (b) acting in conformity with NYU and Stern policies and public law.
10. Refrain from behaving in ways that knowingly support, assist, or in any way attempt to enable another person to engage in any violation of the Code of Conduct. This includes the obligation to

report any observed violations of this Travel Code of Conduct or other School and University policies that are deemed to have an adverse effect on the NYU Stern community.

12. Check in on time and in person with the designated University Official on a daily basis.
13. Attend all mandatory events and activities during the trip.
14. Be on time to all scheduled events, including daily check-ins on free day(s).
15. Travel on the group flights purchased by Stern both to and from the destination.

Violations of the Stern Travel Code of Conduct & Responsibilities can result in disciplinary action, which could include (but is not limited to) academic sanctions, expulsion from the University, referral to the Judiciary Committee or the Undergraduate Dean or Dean's designee(s). In situations where the violation is deemed egregious, students may be immediately sent back to the U.S., bearing responsibility for the cost of transportation to and from the airport as well as airline fees associated with flight changes.

IN-CLASS BEHAVIOR AND EXPECTATIONS

The following policies are assumed to be in force during all Stern courses unless an instructor explicitly establishes alternate policies.

Laptops, Cell Phones, Smartphones, Recorders, and Other Electronic Devices

None of these devices may be used in class.

Attendance

Attending class is required and factored into a student's grade. Faculty may excuse absences only in the case of documented serious illness, family emergencies, religious observance, or civic obligation. Students who miss class for religious observance or civic obligation should inform their instructor no later than the first week of class. Recruiting activities and business trips are not acceptable reasons for absence from class. If a student is absent from the first day of an intensive course, the instructor may request that the student be removed from the course.

Arriving Late, Leaving Early, Coming & Going

Students are expected to arrive to class on time and stay to the end of

the class period. Arriving late or leaving class early impacts the course grade. Students may enter class late only if given permission by the instructor and must do so without disrupting the class. Instructors are not obligated to admit late students or may choose to admit them only at specific times, and instructors are not obligated to readmit students who leave class.

Late Submission of Assignments

Late assignments are either not accepted or incur a grade penalty unless due to documented serious illness or family emergency. Instructors may make exceptions to this policy for reasons of religious observance or civic obligation only when the assignment cannot reasonably be completed prior to the due date and the student makes arrangements for late submission with the instructor in advance.

General Behavior

Students must conduct themselves with respect and professionalism toward faculty, students, and others present in class and follow the instructor's rules for classroom behavior. Students who fail to do so may be asked to leave the classroom.

Collaboration on Graded Assignments

Students may not work together on graded assignment unless the instructor gives express permission.

GRADING PROCEDURES

Grading Guidelines for Core Courses at the Stern Undergraduate College

NYU Stern strives to create courses that challenge students intellectually and that meet the Stern standards of academic excellence. To ensure fairness and clarity of grading, the Stern faculty has adopted a grading guideline for core courses with enrollment of more than 25 students, in which approximately 35% of students will receive an "A" or "A-" grade. In core courses of less than 25 students, the instructor is at liberty to give whatever grades he or she reasons the students deserve while maintaining rigorous academic standards. For elective courses, the individual instructor or department is responsible for determining reasonable grading guidelines.

Grades

Effective fall 2018, new grade point values have been assigned to letter grades. Listed in the chart below are the full range of letter grades and the numerical values used in the computation of the grade point average prior to fall 2018 and going forward. Grades and grade point averages prior to fall 2018 will not change.

Letter Grade	Point Value prior to fall 2018		Point Value as of fall 2018
A*	4.0	Excellent	4.0
A-	3.7		3.667
B+	3.3		3.333
B	3.0	Good	3.0
B-	2.7		2.667
C+	2.3		2.333
C	2.0	Satisfactory	2.0
C-	1.7		1.667
D+	1.3		1.333
D	1.0	Passing	1.0
F	0.0	Failing	0.0

For example, an A in a 4-unit course earns the student 16 grade points (4 x 4.0); a B in a 4-unit course earns 12 grade points (4 x 3.0), and so on.

The following grades are registrar's grades and cannot be recorded by an instructor. They are without numerical value and are ones for which credit is not granted except as noted.

W—This is a registrar's grade assigned when a student officially withdraws from a course.

P—This is a registrar's grade assigned when the student has registered for a course under the pass/fail option when credit is granted or for non-unit courses.

* No grade above A or value above 4.0 may be used.

Pass/Fail Option

The pass/fail option is designed to encourage students to explore new and potentially challenging courses throughout the University. Students are permitted to declare a maximum of four courses pass/fail in their academic career, with no more than one course declared pass/fail in a given term. A pass/fail grade cannot be taken in any required course or courses used to satisfy general education or business studies requirements. Students can apply to declare a class pass/fail using the online form located on the Academics page on the Current Student website and through the Stern Life portal.

Students returning from studying abroad through the IBEX program are only permitted to take one additional pass/fail course at Stern.

Courses taken within a student's declared concentration/minor or major may not be designated pass/fail with the following exceptions:

- Prior to declaring a concentration, a student who takes a course in a concentration area pass/fail can potentially still pursue that area of concentration as long as the course taken pass/fail was not specifically required for the concentration:
 - A student who takes Emerging Markets Finance (FINC-UB 23, advanced finance elective) pass/fail as a sophomore can decide to declare a finance concentration as a junior as long as he or she takes an additional finance elective course for a grade to complete the concentration requirements.
 - A student who opts to take Corporate Finance (FINC-UB 7, required for the concentration) pass/fail as a sophomore would no longer have the option to declare a finance concentration later in his or her academic career.
- Students who have successfully completed their concentration, minor, or major coursework or four required functional Business Core courses, with final grades for the coursework on their transcripts may opt to pass/fail an additional class within their concentration, minor, major, or in the functional Business Core area.

Pass/fail grades are factored into the grade point average as follows (ex. 4-unit course):

Grade of P: 0 grade points; 4 units earned

Grade of F: 4 grade points; 0 units earned

Units earned for passed courses are eliminated from consideration for the Dean's List, graduation with

honors, and Beta Gamma Sigma (e.g. a full-time student must take a minimum of 12 graded units to be eligible for the Dean's List; a pass/fail course does not qualify as part of these units).

Students must designate the specific course for a pass/fail grade by the last day to withdraw from classes in a given term (this includes fall, spring, summer, and January term). Once an application is submitted, the pass/fail designation is irrevocable.

Students wishing to declare a course pass/fail or with questions about the pass/fail option should consult with an academic adviser.

Grades of Incomplete

Incompletes may be earned when unavoidable circumstances keep a student from finishing a course that term and the nature of the course permits the faculty member to allow late completion. If coursework will not be completed before the last class for the semester, a student may request a grade of incomplete. The student should discuss this option with the professor before the last day of class. An incomplete grade is given at the discretion of the professor and is never automatic. Students should note that taking an incomplete grade that results in fewer than 12 units earned for a semester may result in placement on academic warning or academic probation. (For more information on academic standards see page 112). A notation of I (incomplete) is granted for a single semester, without numerical value, and not included in the grade point average. If the student does not then complete the course material in the appointed time (see below), the I becomes an F.

The following rules apply to all grades of incomplete:

1. Students may sit in on the same course in a subsequent term for which they have received an incomplete contingent upon space availability and instructor permission.
2. Make-up work must be completed with the same instructor. If, however, the faculty member is not in residence during the subsequent term when coursework must be completed, the terms of the incomplete can be resolved in consultation with the department chair.
3. All work to complete an incomplete must be made up by the following deadlines unless stipulated otherwise by the instructor:
 - Fall Term or January Term: Last day of the following spring term.
 - Spring Term or Summer Session: Last day of the following fall term.

Note: Students taking incomplete grades in courses outside of Stern (e.g. CAS, Tisch, etc.) are encouraged to consult with that School for details about their specific grading policies in regards to grades of incompletes as they may differ from those of Stern.

Grade Point Average

The grade point average (GPA) is determined by dividing grade points by the units (with 4 grade points and 0 units for a grade of F; 0 grade points and 4 units for a P). The courses accepted toward the degree must first meet program requirements. Units are applied in strict chronological order.

An average GPA of C (2.0) is required for graduation (128-144 units and 256-288 grade points), except that the number of units in pass/fail options are deducted from the total units in calculating the GPA (grade points divided by units). Students who complete the required number of units but who lack grade points may be permitted to take additional courses to gain grade points. They may not secure grade points by repeating courses they have already passed.

Not included in the GPA are units taken in excess of 144 units, units brought in from other institutions, or units brought in through advanced standing credit. In addition, grades for courses taken at the School of Professional Studies (SPS) are not factored into a student's grade point average. Students should consult with an academic adviser regarding these courses.

Retaking Courses

No courses in which a passing grade has been received (D or better) may be retaken. Retaking a course that has been passed in previous semesters is a violation of Stern's policy and is not counted toward graduation requirements nor computed into the student's GPA. A student may only repeat a course if:

- a failing grade was received. Both the failing grade and the passing grade remain on the transcript and both are calculated into the GPA. A student may retake a required course as many times as needed until the course is passed. In those instances, the F grade will be factored into the cumulative GPA as will the passing grade. The units associated with the passing grade will be factored into the student's earned hours.
- a higher grade is required for the completion of a minor or major in a specified course.

Both grades will appear and be factored into the GPA, however the credit will only be earned once.

Grade Changes

The process of assigning grades is intended to be one of unbiased evaluation. Students are encouraged to respect the integrity and authority of the professor's grading system and are discouraged from pursuing arbitrary challenges to it. If a student believes an inadvertent error was made in the grading of an individual assignment or in assessing an overall course grade, a request to have the grade reevaluated may be submitted. To appeal an assigned grade, the student should provide a written explanation to the instructor who assigned the grade outlining the specific grading error. If the student is dissatisfied with the outcome of the review and wishes to appeal the grade further, a formal written appeal should be submitted to the chair and/or faculty course coordinator in the particular department. An independent review of the grade is then undertaken by the department. The student's work is reviewed to clarify how the grade was determined and to ensure the grade is consistent with the academic guidelines and policies of the department and course. The decision of the department in matters related to a course grade is final. In all cases, students are expected to act within the semester following the course to appeal a grade since faculty may not be available to review an appeal in future semesters or years. (For fall and January term courses, students must appeal no later than the following spring. For spring and summer courses, students must appeal no later than the following fall). After the awarding of the Bachelor's degree, no grade changes of any kind are permitted unless they are due to a departmental clerical error in recording.

ACADEMIC STANDARDS

The Office of the Dean and the Stern Office of Academic Advising review student records throughout the academic year. Academic standards actions are based on the grades to date at the end of each term. The Stern Undergraduate College requires that all students make steady and substantial progress toward the Bachelor of Science degree. This entails maintaining a cumulative GPA of at least 2.0 and completing no less than 12 units during each academic semester. A minimum 2.0 cumulative GPA is required to graduate. For information regarding Satisfactory Academic

Progress as it relates to financial aid packages, review the policies for financial aid eligibility at nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/eligibility-for-financial-aid.

Academic Warning

Any student whose performance results in a cumulative GPA of 2.0-2.25 or a semester GPA below 2.0 (even if the cumulative GPA is above 2.0) will receive an academic warning. Students should seek counseling from an academic adviser to discuss recommendations for achieving an appropriate standard for academic performance.

Academic Probation

Any student whose record is deemed unsatisfactory is placed on academic probation and informed so by letter. A record is deemed unsatisfactory if in any semester the cumulative GPA falls below 2.0 or if it fails to show steady and substantial progress toward the degree. Steady and substantial progress toward the degree entails the completion of 12 units with satisfactory grades for which a student registers in any semester.*

Failure to satisfy the conditions of probation outlined in a student's academic probation letter may result in possible dismissal from the University. Academic probation can jeopardize students' scholarship and financial aid funding.

Academic Dismissal

Students who are dismissed from the Stern Undergraduate College for poor academic performance are informed in person or in writing. Students who have paid tuition for the next term at the time of dismissal receive a full refund of tuition and fees. Students dismissed for academic reasons are not eligible for readmission, except in the case of extenuating circumstances that would be determined and evaluated by the Dean's Office.

ACADEMIC STANDARDS FOR STUDENTS IN THE BS/MS IN ACCOUNTING PROGRAM

Admission to the BS/MS in Accounting Dual-Degree Program is only open to enrolled NYU Stern undergraduate students in the Business Program. Spring admission is only open to first year students and sophomores. Juniors and seniors should speak to an academic adviser about applying for admission. To maintain good academic standing in the BS/MS in Accounting Dual-Degree Program, students must earn

a grade of B or better in all accounting coursework, maintain a minimum cumulative GPA of 3.0, and maintain a minimum semester GPA of 3.0.

Academic Warning

Students receive a letter of academic warning if they earn a grade of B- in an accounting course. Students are advised to seek counseling from the BS/MS in Accounting Program academic adviser to discuss recommendations for achieving an appropriate standard for academic performance.

Academic Probation

Any student whose record is deemed unsatisfactory is placed on academic probation for the BS/MS in Accounting Program and is informed by letter. A record is deemed unsatisfactory if in any semester the cumulative GPA falls below 3.0; the semester GPA is below 3.0 (even if the cumulative GPA is above 3.0); and/or the student earns a grade of C+ or below in an accounting course.

Dismissal

Following one semester of probation, a student may be dismissed from the BS/MS in Accounting Program if he or she fails to satisfy the conditions of the probation.

If a student is placed on probation in his or her second-to-last semester in the BS in Business Degree Program and fails to satisfy the conditions of probation at the conclusion of the final semester in the BS Program, the student will not be permitted to matriculate into the MS in Accounting Program.

MS in Accounting Program

Admission to the MS in Accounting Program is contingent upon completion of the BS in Business Program. Conferral of the MS in Accounting degree is dependent upon the student earning a cumulative GPA of 2.5 or better and satisfying any other degree requirements maintained by the Graduate School of the Stern School of Business.

CONCENTRATION(S) AND MINOR SELECTION

Students are encouraged to declare a concentration(s), major in CAS, and/or minor by the end of their sophomore year. Students are required to declare at least one Stern concentration on Albert no later than the end of their

*Stern seniors are permitted to take fewer than 12 units in their final semester if approved by their academic adviser.

junior year. When considering a double concentration, a major through CAS, or minor, students should be aware that the degree requirements might exceed 128 units, possibly affecting financial aid. Those who have questions about specific concentrations, double concentrations, or minor possibilities, or who require help in making this decision should see their adviser at the Stern Office of Academic Advising, or the respective undergraduate faculty adviser, or the appropriate minor department. Students make a formal declaration of a concentration by completing a Selection of Concentration Declaration form electronically at stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. A cross-school minor form can be filled out electronically on Albert. The primary major for a Stern degree is Business. Students are permitted to declare up to three official designations beyond the major in Business (i.e. two concentrations and one minor; one concentration and two minors; or two concentrations through Stern and one major through the College of Arts & Science).

DOUBLE-COUNTING OF STERN COURSEWORK

Stern students are not permitted to count Stern coursework toward more than one requirement. For instance, students concentrating in finance and global business may count International Financial Management (see page 37 for course description) either as an advanced finance elective or as a global business requirement—it cannot count toward both concentrations. In some situations, certain Stern courses taken as substitutes for specific curricular requirements may be used to satisfy both the requirement in question and an upper-level elective toward the completion of a given concentration. Students are encouraged to meet with an academic adviser to determine if this may apply to their situation and, more generally, if they have any questions about how this policy might impact their planned academic progress.

PROFICIENCY EXAMINATIONS

Writing Proficiency Examination

Stern first year students are required to take two writing courses. Students must take Writing the Essay (EXPOS-UA 1) and Business & Its Publics: Inquiry and Discourse (SOIM-UB 125). For qualified international students, the courses are

International Writing Workshop I (EXPOS-UA 4) and International Writing Workshop II (EXPOS-UA 9). In addition, all students must demonstrate proficiency in expository writing, which is satisfied through achieving a minimum grade of C in Writing the Essay or International Writing Workshop I.

Internal transfer students from other NYU divisions should have satisfied the proficiency requirement by achieving a minimum grade of C in a corresponding writing course completed through their previous division.

External transfer students* must complete a proficiency examination administered by the Expository Writing Center in May, August, and December.

All students must receive a passing score on the writing proficiency examination to graduate. Any student who fails the test must instead register for EXPOS-UA 13 Writing Tutorial (4 units) for graduation, which is offered on a pass/fail basis only. Any student who fails this course must repeat it until a passing grade is earned. The course is also available for other students as space permits. In particular, the tutorial course provides intensive individual writing lessons. For more information, visit nyu.edu/cas/eup or contact the Expository Writing Center, 411 Lafayette Street, 4th Floor; 212-998-8860.

Transfer Business Proficiency Examinations

All transfer units received in each of the following subjects are designated as elective only, pending completion of a multiple-choice proficiency examination in the subject: finance, marketing, and statistics. If the student obtains a passing score, the units are redistributed to fulfill the appropriate requirement in the degree program (MKTG-UB 1, Introduction to Marketing; FINC-UB 2, Foundations of Finance; or STAT-UB 1, Statistics for Business Control). Students may take these examinations only once. If the student fails the proficiency examination, the transfer course remains as elective credit and the student must satisfy the introductory requirement at Stern. Only students with introductory courses in these subjects from a previous institution are eligible for proficiency examinations (except for students with scores of 4 or 5 on the AP examination in statistics). All proficiency examinations are administered by the Stern Office of Academic Advising. Students wishing to take any of these examinations must do so by the stated deadline provided by the Advising Office each year.

RESIDENCY REQUIREMENTS

All degree candidates are subject to the following residency requirement: students, excluding those authorized to participate in an approved study away program, must complete at least 64 units of coursework in residence at the Undergraduate College of the Stern School of Business.

Transfer students from other NYU schools are required to transfer in all graded credits taken at NYU prior to entering Stern with the exception of any advanced standing credit (AP, IB, etc.) that was automatically applied without their explicit consent at the outset of their original program. Internal transfer students may enter Stern with more than 64 earned units, however they are held to the 144 unit limit so that any non-required units earned in excess of that limit will be discounted from their degree. (See page 106 for further information regarding unit limits.)

External transfer students can transfer in a maximum of 64 units from their prior institution(s). Non-transfer students are allowed to transfer in a maximum of 32 units from the following: Advanced Placement Examinations, the International Baccalaureate Program, the results of certain foreign certificate examinations, and college credit earned prior or during matriculation at NYU (see policies related to “Non-NYU coursework”).

The full-time program should be completed in four years and must be completed within five consecutive calendar years or 10 academic semesters; this includes semesters taken at previous institutions. Failure to do so may result in academic dismissal.

Non-NYU Coursework

Students enrolled for degree programs at New York University are expected to take their courses, including summer sessions, at New York University. Exceptions are considered on a case-by-case basis and must be taken at a four year-accredited institution. They are not to exceed 8 units of non-business coursework and must be preapproved by the Stern Office of Academic Advising. This includes

**External transfer students who did not take two writing courses at their previous institution, but who took other coursework that required intensive writing may submit a portfolio of writing samples to the Expository Writing Program for use in evaluating if they are required to take EXPOS-UA 1. Students waived from this requirement due to their submission of a portfolio are still required to pass the Writing Proficiency Exam.*

courses taken online. Coursework taken outside of NYU must comply with the Stern residency requirements.

Stern does not grant credit for college/university courses taken during high school if the courses were also used to satisfy high school graduation requirements. Previously taken college coursework (non-business) that does not count toward the high school degree can be reviewed for possible application of credit. Previously taken college/university business coursework may not be used for credit and may only be evaluated for placement. External transfer students who took business coursework at their previous institution can have those courses reviewed for both placement and for possible credit (see policies related to Transfer Business Proficiency Examinations).

In all cases, an official transcript from the transfer institution must be furnished by the student to the Academic Advising Office to facilitate application of credit toward the Stern degree. In cases where credit is being applied by incoming first year students for previously taken college coursework, a minimum grade of B is required. For external transfer students and continuing students who opt to apply outside credit, the minimum grade required is a C or higher. Approval for the awarding of credit or determining placement based on previously taken college credit is at the discretion of the Academic Advising staff.

LEAVE OF ABSENCE OR COMPLETE WITHDRAWAL FROM ALL COURSES

Leaves of absence are approved for medical, financial, or personal reasons. Students may request in advance a leave of absence from the Stern Undergraduate College for a period of up to two semesters in their career. The typical period for a leave is one semester, but students may request a second semester as well. To request a leave of absence, students must meet with their academic adviser to discuss not only the reason for the leave, but also the ensuing ramifications and possible alternatives to taking a leave. Once approved, a Leave of Absence Form must be filed and students must complete the NYU Semester Withdrawal Form on Albert.

Students should be aware of the following:

- Students may request a leave of absence from the Stern Undergraduate College for a maximum period of up to two semesters in their career.
- Students absent for more than two consecutive semesters must apply

for readmission to the Stern Undergraduate College with no guarantees of acceptance.

- International students whose home countries require students to perform two years of military service do not need to apply for readmission to NYU and Stern after a leave of absence for military service provided they meet the following conditions: (1) they are on leave for just four regular (e.g., fall and spring) semesters and (2) they provide documentation of their military service during that time and an honorable discharge certificate, accompanied by English translation by accredited third-party translators. Students who take a leave of absence for a military-related reason who fail to meet these conditions must apply for readmission with no guarantee of acceptance.
- Leaves are not granted after the ninth week of the term except for compelling personal or medical reasons.
- Refund percentages are based on the Office of the Bursar's schedule of refunds and are not granted after the fourth week of the term.
- Students who request a leave of absence for two consecutive semesters are required to meet with their adviser upon their return to Stern.
- Medical leaves require supporting documentation from the Student Health Center or Counseling & Behavioral Health Services.
- Students returning from medical leave require clearance from the Student Health Center or Counseling & Behavioral Health Services prior to enrolling in classes.
- Students are responsible for financial aid renewal applications and deadlines while on leave.
- No credit is awarded for domestic or international classes taken while on a leave of absence.
- Any student on an unofficial or unauthorized leave is required to apply for readmission.
- International students are instructed to meet with a counselor in the Office of Global Services (OGS) prior to taking a leave of absence to ensure that their visa status allows for a leave and to discuss visa and other immigration implications that might arise from a medical, personal, or financial leave of absence.
- Any student involved in an ongoing disciplinary investigation may not initiate an official withdrawal from the University without approval from the Stern Undergraduate College.

Leave of Absence or Withdrawal After the Start of a Semester

Once a semester has begun, enrolled students who want to (1) withdraw completely from all courses for the current semester, (2) withdraw completely from the University, or (3) take a leave of absence for the current semester must complete the NYU Semester Withdrawal Form on Albert. Students do not need to complete the NYU Semester Withdrawal Form if (1) they are dropping/adding individual classes, but will remain enrolled at NYU, or (2) are notifying the Stern Office of Academic Advising about their intent to take a leave of absence or withdrawal from the University for a future semester.

EARLY GRADUATION

All students accepted to the Stern School of Business are admitted to a 4-year (8 academic semesters) program. Students are encouraged to participate in the wide range of opportunities found at NYU including clubs, sports, community service, and internships over the four-year period.

The possibility of early graduation is contingent upon the completion of all required coursework. Completion of coursework is subject to course availability and successful completion of all degree requirements. Students interested in early graduation are encouraged to discuss it with their adviser.

INTERNSHIP POLICY

Internships are a wonderful complement to classroom learning and can be a valuable part of a student's education, especially with all of the exciting opportunities offered in New York City. Scheduling conflicts associated with internships are not an acceptable excuse for failing to meet academic obligations including but not limited to attending class, arriving to class on time, taking scheduled examinations, completing homework assignments, fulfilling group work obligations, and addressing registration issues.

Stern only signs the agreements related to and associated with the Business Practicum course. Stern does not sign contracts and liability waivers provided by companies. Stern offers a 0.5-unit elective course Business Practicum (MULT-UB 71) designed to help students learn leadership and interpersonal skills that will allow them to effectively apply their classroom knowledge to the workplace. For more specific information regarding this course, refer to the

Multidisciplinary Courses section (page 62) as well as stern.nyu.edu/portal-partners/current-students/undergraduate/academics/research-practitioner-learning/the-business-practicum-course-mult-ub-71.

ACCESS TO ACADEMIC INFORMATION

The Family Educational Rights and Privacy Act (FERPA) requires the permission of a student to release information from his or her education records to a third party (except in cer-

tain specified instances). A student's education record includes all documents maintained by the University in either hard copy or electronic format that contain personally identifiable information about the student. If a student wishes to consent to release information from their education records for the purpose of keeping a parent or other individual informed of their progress at NYU, they must complete the Consent to Share Student Information Form, which can be found in the Stern Office of Academic Advising or online at

stern.nyu.edu/portal-partners/current-students/undergraduate/resources-policies/forms. Students have the right to revoke the permissions granted at any time by submitting a revocation letter to the Stern Office of Academic Advising. The waiver to share information with a third party remains in effect until the student submits such a letter. For more information on FERPA, see nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/FERPA.

All-University Policies and Procedures

ENROLLMENT VERIFICATION

Enrollment Verification provides details on whether a student is enrolled full-time, half-time, or less than half-time for the current semester or for all of the semesters that they have been enrolled at NYU. Enrollment certifications are frequently needed to verify eligibility for health insurance coverage, certain types of financial aid, and for other services available to individuals enrolled in colleges and universities.

New York University has two procedures for obtaining enrollment verification documents. NYU students can obtain verification directly from the Office of the University Registrar, while third party verifications should be requested through the National Student Clearinghouse. Those who are not NYU students or alumni must follow the instructions outlined in the third-party request procedure.

Student Request Procedure - Albert

Students can view and print individual enrollment certification directly from Albert using the integrated National Student Clearinghouse student portal. Students have 18 months from the time of their last active enrollment to access this feature through the National Student Clearinghouse. This feature can be accessed from the "Request Enrollment Verification" link in the My Academics section of Student Center.

Eligible students are also able to view and print a Good Student Discount Certificate, which can be mailed to an auto insurer or any other company that requests proof of status as a good student (based on cumulative GPA).

Students whose last active enrollment has been 18 months or longer should follow the instructions in the next column.

Student Request Procedure—Signed Letter

Requests for verification of enrollment or graduation may be made by submitting a **signed** letter with the following information:

1. University ID Number
2. Current Name and any name under which you attended NYU
3. Current Address
4. Date of Birth
5. School of the University attended
6. Dates of Attendance
7. Date of Graduation
8. Full Name & Address of the person or institution to which the enrollment verification is to be sent

Mail the request to the Office of the University Registrar, Enrollment Verification & Graduation, P.O. Box 910, New York, NY 10276-0910.

Signed requests can also be faxed to (212) 995-4154 or emailed as an attachment to academic.records@nyu.edu. Please allow seven business days from the time the Office of the University Registrar is in receipt of the request. To confirm receipt of a verification request, contact the Office of the University Registrar at (212) 998-4280.

Third-party Request Procedure

To verify enrollment of a New York University student or alumnus, the EnrollmentVerify service is now available from the National Student Clearinghouse. Visit the EnrollmentVerify webpage at student-clearinghouse.org/colleges/enrollmentverify to initiate the verification process. When asked to provide the name of the student's school, enter New York University and not the name of the individual school/college. Degree verification is also available through the National Student Clearinghouse. Please note that there is a fee for all services provided by the National Student Clearinghouse.

Official Transcripts

Official copies of a student's University transcript can be requested when a stamped and sealed copy of an academic record is required. Requests for official transcripts require the **signature** of the student/alumnus requesting the transcript unless the student/alumnus has a valid NetId.

Students with a Valid NetID

Those who attended NYU after 2001 and are able to access NYUHome/Albert can now request an official transcript from the new Albert Student Center. The Official Transcript form can be found under the My Academics section of Student Center.

Transcripts processed through the Albert Student Center will include academic records from 1990 onwards. Alumni who attended NYU prior to 1990 and have a valid NetId may go to the Secure Online Transcript Request Form. Logging in to the request form with a NetId and password will authenticate users as a student and a signed consent form is not required.

Before completing a request, check to ensure all grades have been posted. Recent graduates should also check to ensure their degree has been recorded.

SPECIAL HANDLING: If a request requires any special handling, proceed to the Secure Online Transcript Request Form instead of requesting a transcript on Albert. Follow the instructions on the form. Special handling requests may include: (1) sending transcripts by express mail; (2) sending transcripts to oneself in separate sealed envelopes addressed to admissions offices of other universities; and (3) requesting additional documents to be sent along with the NYU transcript.

Former Students without a Valid NetId

Those who no longer have a valid NetId (unable to access NYUHome/Albert) or attended New York University prior to 1990 should complete the Online Transcript Request Form and mail, fax, or email the signature page to the Office of the University Registrar. They may also write a letter to request transcripts with a signed consent form. All students who attended NYU during or after 2001 are now eligible for access to NYUHome/Albert. Visit albert.nyu.edu for access guidelines.

There is no charge for academic transcripts. Transcripts cannot be produced for anyone whose record has been put on hold for an outstanding University obligation.

Mailing Address, Fax Number, & Email

All academic record requests must be accompanied by a signed document. Mail, fax, or email (include the signed form as an attachment) a signed form or letter to the Office of the University Registrar, Academic Records, P.O. Box 910, New York, NY 10276-0910; (212) 995-4154; academic.records@nyu.edu.

Writing a Request Letter

A request letter must include all of the following information:

1. University ID Number
2. Current Name and any other name under which you attend/attended NYU
3. Current Address
4. Date of Birth
5. School of the University you attend/attended and for which you are requesting the transcript
6. Dates of Attendance
7. Date of Graduation
8. Full Name and Address of the person or institution to which the transcript is to be sent

There is no limit for the number of official transcripts that can be issued to a student. Students may indicate in their request if they would like the transcripts to be forwarded to their home address, but the name and address of each institution are still required. Unofficial transcripts are available on Albert.

If a transcript request is initiated through the online request form, an email confirmation will be sent when the **signed** request form is received.

Arrears Policy

The University reserves the right to deny registration and withhold all information regarding the record of

any student who is in arrears in the payment of tuition, fees, loans, or other charges (including charges for housing, dining, or other activities or services) for as long as any arrears remain.

ATTENDANCE AND RELIGIOUS POLICY

Attendance is expected at all classroom sessions. The taking of attendance and attendance requirements are at the discretion of the individual instructor. In determining the student's official grade, the instructor may consider excessive absences.

New York University and the Stern School of Business, a nonsectarian institution, adhere to the general policy of including in its official calendar only certain legal holidays. However, it has also long been University policy that members of any religious group may, without penalty, absent themselves from classes to comply with their religious obligations. In 1988, the University Senate affirmed this policy and passed a resolution that elaborated on it as follows:

1. Students who anticipate being absent due to any religious observance should whenever possible notify faculty in advance of such absence.
2. Whenever feasible, examinations and assignment deadlines should not be scheduled on religious holidays. Any student absent from class because of such beliefs shall not be penalized for any class, examination, or assignment deadline missed on that day or days.
3. If examinations or assignment deadlines are scheduled, any student who is unable to attend class because of religious beliefs shall be given the opportunity to make up that day(s).
4. No adverse prejudicial effects shall result to any student who avails himself/herself of the above provisions.

FINAL EXAMINATIONS

Regular final examinations are given at the end of each semester. Examination dates are provided in the course directory book used for registration and on the Office of the University Registrar's website at nyu.edu/students/student-information-and-resources/registration-records-and-graduation/registration/registration-schedules. Final exam schedules are published at the beginning of each semester - it is incumbent upon students to take note of them and understand that there is no limit to the number of exams given on a certain day. A student may take a

final examination for a given course only once. No credit is given for any course until a student successfully passes the final examination or its equivalent.

DIPLOMA APPLICATION

Students may officially graduate in September, January, or May. The Commencement ceremony for all NYU schools is held in May. To graduate in a specific semester, students must apply for graduation within the application deadline period indicated on the calendar. (Find the graduation deadlines calendar and general graduation information on the Office of University Registrar's webpage at nyu.edu/registrar/graduation.) It is recommended that students apply for graduation at the beginning of the semester in which they plan to complete all program requirements. Undergraduates who do not successfully complete all academic requirements by the end of the semester must reapply for graduation for the following cycle.

DEAN'S EXCEPTION

Students who must complete outstanding coursework to meet their graduation requirements over the summer subsequent to the spring semester of their senior year are permitted to walk in the May graduation ceremonies with the rest of their class. To do so, they must meet with an academic adviser and complete a Dean's Exception Form that serves as a waiver to allow students to walk in the Commencement ceremonies prior to the completion of their degree requirements. The official graduation date of students who walk in May with a dean's exception and who complete their coursework over the summer is September of their original graduation year.

VETERAN'S BENEFITS

Various Department of Veterans Affairs programs provide educational benefits for spouses, sons, and daughters of deceased or permanently disabled veterans as well as for veterans and in-service personnel, subject to certain restrictions. Under most programs, the student pays tuition and fees at the time of registration but receives a monthly allowance from Veterans Affairs.

Veterans with service-connected disabilities may qualify for educational benefits under Chapter 31. An applicant for this program is required to submit to the Department of Veterans Affairs a letter of acceptance from the college he or she wishes to attend.

Upon meeting the requirements for the Department of Veterans Affairs, the applicant is given an Authorization for Education (VA Form 22-1905), which must be presented to the Office of the University Registrar, 383 Lafayette Street, before registering for coursework. Veterans allowance checks are usually sent directly to veterans by the Department of Veterans Affairs. Veterans and eligible dependents should contact the Office of the University Registrar each term for which they desire Veterans Affairs certification of enrollment.

All veterans are expected to reach the objective (Bachelor's or Master's degree, doctorate, or certificate) authorized by Veterans Affairs with the minimum number of units required. The Department of Veterans Affairs may not authorize allowance payments for units that are in excess of scholastic requirements, that are taken for audit purposes only, or for which non-punitive grades are received.

Applications and further information may be obtained from the student's regional office of the Department of Veterans Affairs. Additional guidance may be obtained from the Office of the University Registrar. Since interpretation of regulations governing veterans' benefits is subject to change, veterans should keep in touch with the Department of Veterans Affairs or with NYU's Office of the University Registrar.

UNIVERSITY POLICY ON PATENTS

Students offered research opportunities are reminded that inventions arising from participation in such research are governed by the University's Statement of Policy on Patents, a copy of which may be found in the Faculty Handbook or obtained from the Office of the Dean.

NEW YORK UNIVERSITY WEAPONS POLICY

New York University strictly prohibits the possession of all weapons, as described in local, state, and federal statutes, that includes, but is not limited to firearms, knives, and explosives in and/or around any and all University facilities—academic, residential, or others. This prohibition extends to all buildings—whether owned, leased, or controlled by the University, regardless of whether the bearer or possessor is licensed to carry that weapon. The possession of any weapon has the potential of creating a dangerous situation for the bearer and others.

The only exceptions to this policy are duly authorized law enforcement personnel who are performing official federal, state, or local business, and instances in which the bearer of the weapon is licensed by an appropriate licensing authority and has received written permission from the executive vice president of the University.

NEW YORK UNIVERSITY SIMULATED FIREARM POLICY

New York University strictly prohibits simulated firearms in and/or around any and all University facilities—academic, residential, or other. This prohibition extends to all buildings—whether owned, leased, or controlled by the University. The possession of a simulated firearm has the potential of creating a dangerous situation for the bearer and others.

The only exceptions to this policy are instances in which (1) the bearer is in possession of written permission from a dean, associate dean, assistant dean, or department head and (2) such possession or use of simulated firearms is directly connected to a University- or school-related event (e.g., play, film production). Whenever an approved simulated firearm is transported from one location to another, it must be placed in a secure container in such a manner

that it cannot be observed. Storage of approved simulated firearms shall be the responsibility of the Department of Public Safety in a location designated by the vice president for public safety. Under no circumstances, other than at a public safety storage area, may approved simulated firearms be stored in any University owned, leased, or controlled facilities.

IMMUNIZATION REQUIREMENTS

New York State Public Health Law (NYS PHL) 2165 requires all students registering for six or more units in a degree-granting program to provide immunization documentation for measles (rubeola), mumps, and rubella (German measles) prior to registration. Students born before January 1, 1957 are exempt. New students should complete the MMR section of the Student Health History form. Continuing students should complete and submit a Student Immunization Record Form. All forms are available on the New York University Student Health Center web site at nyu.edu/shc.

New York State Public Health Law (NYS PHL) 2167 requires that all students registered for six or more units submit a Meningitis Response Form as formal confirmation of their decision as to whether or not to be immunized with the meningococcal (meningitis) vaccine. New students should complete the Meningitis Response section of the Student Health History form. Continuing students should complete and submit a Meningitis Response Form.

Failure to comply with state immunization laws will prevent NYU students from registering for classes. In addition to these requirements, the NYU Student Health Center recommends that students also consider hepatitis B and varicella immunizations. Students should discuss immunization options with their primary care provider.



Scholastic Achievement & Other Awards

The NYU Stern School of Business recognizes students who attain academic and co-curricular excellence.

DEAN'S LIST

The Dean's List is compiled at the end of each academic year (September-May). This is a list of matriculated Stern students who have maintained a grade point average of 3.7 or more in a program of study of at least 28 graded units over an academic year (no less than 12 units in either the fall or spring semester at Stern and not including courses taken pass/fail; see below for senior and IBEX exceptions). To be listed, a student must have not been assigned any grades of incomplete or N.¹ GPAs are carried to 2 decimal places, but are not rounded off.

Graduating seniors who enroll part-time in their final semester are eligible for Dean's List honors if they have completed at least 22 graded units (not including pass/fail) and maintained a grade point average of at least 3.75 over the academic year. Seniors graduating in January must complete at least 8 graded units in the immediately preceding semester (not including pass/fail) and must receive a semester grade point average of at least 3.8 to qualify. To be listed, a student must not have been assigned any grades of incomplete or N².

Students who study away for a semester through Stern's IBEX program are eligible for the Dean's List even though the grades they earn abroad will be transferred back to Stern pass/fail.

Juniors: During their non-IBEX semester, juniors must maintain a GPA of 3.8 or more in a program of study that is no less than 12 units (not including courses taken pass/fail).

Seniors: During their non-IBEX semester, seniors must maintain a GPA of 3.8 or more in a program of study that is no less than 8 credits (not including courses taken pass/fail).

For both juniors and seniors, a student must have not been assigned any grades of incomplete or N.

GRADUATION WITH HONORS

Distinguished academic achievement is recognized by awarding degrees with the following distinctions (based on cumulative GPA): cum laude, magna cum laude, and summa cum laude. The GPA cutoffs for each category are determined by the combined GPA distribution from the preceding academic year, all graduation moments included. The cutoff for summa cum laude is the GPA included within the top 5% of the previous year's graduating class. The cutoff for magna cum laude is the GPA included within the next 10% of the previous year's class. The cutoff for cum laude is the GPA included within the next 15% of the previous year's class.

STUDENT AWARDS AND PRIZES

The Stern School of Business recognizes and rewards students who attain academic excellence and achieve distinction in extracurricular activities. Awards and prizes are presented to those who have shown academic superiority, demonstrated leadership, and made exceptional contributions to the Stern School. Achievement in these areas is acknowledged both during students' academic tenure and at graduation.

HONORARY SOCIETIES

Beta Gamma Sigma

The national honorary society of collegiate schools of business, Beta Gamma Sigma has 498 chapters throughout the world. It occupies a position in the field of business comparable to Phi Beta Kappa in the humanities. Membership in the society is open to juniors whose GPA places them in the upper 7% of their class and to seniors whose GPA places them in the upper 10% of their class. To be eligible for membership, a student must have completed at least 60 units while matriculated at Stern for which he or she received a letter grade (a grade of pass is not acceptable). All courses that appear on the Stern transcript and that fulfill the Stern academic program requirements are used in computing this grade point average. Students are notified of their eligibility to join Beta Gamma Sigma in the spring semester.

¹Seniors in the Honors Program in the fall semester receive an "incomplete" for that semester's grade. However, participants in this program are eligible for Dean's List honors for the fall as long as they have a minimum 3.7 GPA in at least 8 graded units.

²Seniors in the Honors Program in the fall semester receive an "incomplete" for that semester's grade. However, participants in this program are eligible for Dean's List honors for the fall as long as they have a minimum 3.7 GPA in at least 8 graded units.



Stern Program for Undergraduate Research (SPUR)

The Stern Program for Undergraduate Research (SPUR) reflects the Stern School's ongoing commitment to academic

excellence. Through SPUR, students are provided with opportunities to enhance their intellectual development by connecting with Stern faculty conducting state-of-the-art

research. SPUR encompasses the following three opportunities for undergraduates: the SPUR Database, Research Seminars, and Honors Program.

SPUR Database

This online database connects Stern undergraduates with faculty conducting research. Students engage one-on-one with Stern faculty members for a unique and challenging intellectual experience. All research projects directly support the Stern School's groundbreaking research agenda. This is a great way for Stern students to engage in top-tier academic research with recognized Stern faculty, challenge themselves outside of the typical classroom environment, discover potential career pathways in academia, and gain an advantage when applying for graduate studies.

Application Process

- (1) Browse the opportunities posted by Stern faculty. The SPUR database can be found online at stern.nyu.edu/portal-partners/current-students/undergraduate/academics/research-practitioner-learning/spur.
- (2) Apply for a position through the database by selecting a research opportunity of interest and fill out and upload the appropriate information as requested.
- (3) Faculty members contact students directly in response to their applications. Individual faculty have their own criteria for acceptance as it relates to their specific project. Students should be ready and willing to participate in challenging, high-level academic research.

Research Projects

Students are only permitted to register for one research project per semester. Research projects can be 1 unit (10 hours per semester) or 2 units (20 hours per semester). These credits count toward the student's allotted 18 units for the semester. Research projects may not be taken

pass/fail; a letter grade will be assigned by the faculty member at the completion of the semester.

RESEARCH SEMINARS

In these research-oriented courses, students learn cutting edge methodologies and tools for research from Stern's top research faculty. Research seminars focus on current topics and recent findings through state-of-the-art research and encourage students to engage in other opportunities for advanced study through SPUR's research initiatives. Research seminars are listed as Multidisciplinary courses (MULT-UB).

HONORS PROGRAM

Established in 2001, the Stern Honors Program invites an elite group of seniors to become intimately involved in graduate-level research. The program pairs students with research-oriented faculty members who partner with and advise participants throughout their year-long thesis development. Additionally, students take part in an honors seminar with other program participants and may take graduate-level courses in areas of interest.

Selection Process

Each year, the Stern Honors Program invites top-ranked juniors to apply for admission into the program. Students are invited based on academic performance during their first three years of undergraduate education. Invited students must submit an application and be interviewed by two faculty members before selections are finalized.

Honors Program Structure

The Stern Honors Program includes three main components: an advanced elective module composed of graduate courses, an honors seminar, and a thesis project based on independent research.

Graduate Courses

Students selected for the program can take up to six units of graduate elective courses during their senior year. Faculty members from each department review course offerings and advise as to which options best fit the needs of each honor student.

Honors Seminar¹

The Honors Seminar is held weekly. Each session is conducted by chaired professors, research professors, faculty research fellows, and others who present on research developments in their area. These seminars provide students with an overview of timely research across all disciplines of business and its practical applications.

Honors Thesis

Each student formulates a thesis and performs his or her own original research under the guidance of a research faculty member. In addition to providing valuable insight into the thesis development process, faculty advisers act as mentors to the students. At the end of the academic year, students are required to submit and present their thesis to program peers.

¹Students in the program must enroll in the Stern Honors Program Seminar and the Stern Honors Program Thesis for both the fall and spring semesters.



Washington Square Map & Key



47 Academic Resource Center (B-2) 15 Washington Place	43 Goddard Hall (B-2) 29 Washington Square East	4 Office of Global Programs, Student Services (B-1) 110 East 14th Street	80 Sweat-n-Shop (Mercer) (B-3) 151 Mercer Street
16 Alumni Hall (C-2) 22 3rd Avenue	62 Gould Plaza (B-3)	4 Office of Special Sessions (B-1) 80 East 14th Street	3 Sweat-n-Shop (14th Street) (C-1) 14.3 East 14th Street
51 Alumni Relations (B-2) 25 West 4th Street	21 Graduate School of Arts and Science (B-2) 1/2 5th Avenue	3 Palladium Athletic Facility (C-1) 140 East 14th Street	15 Third Avenue North Residence (C-1) 75 3rd Avenue
17 Barney Building (C-2) 34 Subversive Street	Gramercy Green (not on map) 210 3rd Avenue	5 Palladium Hall (C-1) 140 East 14th Street	8 Thirteenth Street Residence (A-1) 47 West 13th Street
59 Bobel Library (B-3) 20 Washington Square South	Greenwich Hotel (not on map) 636 Greenwich Street	38 Philosophy Building (B-2) 5 Washington Place	6 Tisch Center for Hospitality, Tourism, and Sports Management (B-1) 855 Broadway
41 Bookstore (B-2) 726 Broadway	32 Grey Art Gallery (B-2) 100 Washington Square East	46 Pless Annex (B-2) 25 Washington Place	63 Tisch Hall (B-3) 40 West 4th Street
13 Brittany Hall (B-2) 55 East 10th Street	44 Hayden Hall (A-2) 33 Washington Square West	45 Pless Hall (B-2) 82 Washington Square East	38 Tisch School of the Arts (B-2) 721 Broadway
13 Broadway Windows (B-2)	Institute for the Study of the Ancient World (not on map) 15 East 84th Street	54 Provincetown Playhouse (A-3) 133 MacDougal Street	35 Torch Club (B-2) 15 Waverly Place
12 Bronfman Center (B-2) 7 East 10th Street	Institute of Fine Arts (not on map) 1 East 70th Street	63 Psychology Building (B-2) 6 Washington Place	61 Undergraduate Admissions (B-3) 50 West 4th Street
Broome Street Residence (not on map) 600 Broome Street	23 Institute of French Studies (B-2) 15 Washington Mews	63 Public Safety Administration Building (B-2) 7 Washington Place	4 University Hall (B-1) 110 East 14th Street
34 Brown Building (B-2) 29 Washington Place	72 International Students and Scholars (B-3) 551 La Guardia Place	63 Public Safety Control Command (B-2) 14 Washington Place	55 Vanderbilt Hall (A-3) 40 Washington Square South
26 Cantor Film Center (B-2) 55 East 8th Street	Jeffrey S. Gould Welcome Center, Undergraduate Admissions, Alumni Drop-In (B-3) 50 West 4th Street	63 Puck Building (C-3) 295 Lafayette Street	82 Wagner Graduate School of Public Service (C-3) 295 Lafayette Street
67 Card Center (C-3) 383 Lafayette Street	61 Kaufman Management Center (B-3) 44 West 4th Street	41 Residential Life and Housing Services (C-3) 726 Broadway	64 Warren Weaver Hall (B-1) 251 Mercer Street
1 Carlyle Court (B-1) 25 Union Square West	56 Kavorkian Center (A-3) 50 Washington Square South	11 Rubin Hall (B-2) 25 5th Avenue	3 Wasserman Center for Career Development (C-1) 140 East 14th Street
9 Casa Italiana Zerilli-Marimón (A-1) 24 West 12th Street	35 Kimbell Hall (B-2) 246 Greene Street	28 Rufus B. Smith Hall (B-2) 25 Waverly Place	48 Washington Square East Galleries (B-2) 60 Washington Square East
80 Coles Sports and Recreation Center (B-1) 181 Mercer Street	58 Kimmel Center for University Life (B-3) 60 Washington Square South	7 School of Continuing and Professional Studies (B-1) 7 East 12th Street	74 Washington Square Village (B-3) 1-4 Washington Square Village
32 College of Arts and Science (B-2) 31 Washington Place	56 King Juan Carlos I of Spain Center (A-3) 53 Washington Square South	55 School of Law (A-3) 40 Washington Square South	45 Washington Square Windows (B-2)
College of Dentistry (not on map) 145 East 10th Street	23 La Maison Française (B-2) 16 Washington Mews	60 Schwartz Plaza (B-3)	33 Waverly Building (B-2) 24 Waverly Place
41 College of Nursing (B-2) 726 Broadway	Lafayette Residence Hall (not on map) 811 Lafayette Street	78 Second Street Residence (C-3) 1 East 2nd Street	27 Weinstein Hall (B-2) 11 University Place
50 Computer Bookstore (B-2) 242 Greene Street	41 Liberal Studies (B-2) 726 Broadway	30 Seventh Street Residence (C-2) 40 East 7th Street	54 Wilf Hall (A-3) 139 MacDougal Street
73 Copy Central (B-3) 547 La Guardia Place	36 Life Sciences Building (B-2) 12 16 Waverly Place	61 Shinkin Hall (B-3) 50 West 4th Street	29 10 Astor Place (B-2)
2 Coral Towers (C-1) 129 2nd Avenue	10 Lillian Vernon Center (A-2) 55 West 10th Street	32 Silver Center for Arts and Science (B-2) 300 Washington Square East	77 888 Broadway (B-3)
64 Courant Institute (B-3) 251 Mercer Street	49 Loewe Theater (B-2) 35 West 4th Street	24 Silver School of Social Work (B-2) 1 Washington Square North	6 836 Broadway (B-3)
88 Dragostino Hall (A-3) 110 West 3rd Street	75 Mail Services (B-3) 547 La Guardia Place	58 Skirball Center for the Performing Arts (B-3) 565 La Guardia Place	41 726 Broadway (B-2)
22 Deutsches Haus (B-2) 42 Washington Mews	41 McGhee Division (B-2) 726 Broadway	50 Skirball Department (A-3) 25 Washington Square South	43 20 Cooper Square (C-2)
47 East Building (B-2) 239 Greene Street	76 Kreeger Street Residence (B-1) 340 Mercer Street	46 Steinhardt School of Culture, Education, and Human Development (B-2) 82 Washington Square East	66 14 East 4th Street (B-3)
49 Education Building (B-2) 33 West 4th Street	63 Mercer Plaza (B-3)	61 Stern School of Business, Graduate Program (B-3) 44 West 4th Street	67 383 Lafayette Street (C-3)
21 Faculty of Arts and Science (B-2) 5 Washington Square North	53 Moyer Hall (B-2) 4 Washington Place	63 Stern School of Business, Undergraduate College (B-3) 40 West 4th Street	42 411 Lafayette Street (C-2)
14 Founders Hall (C-1) 120 East 12th Street	41 Morse Center for Students with Disabilities (B-2) 726 Broadway	41 Student Health Center (B-2) 726 Broadway	69 139 MacDougal Street (A-3)
57 Furman Hall (A-3) 245 Sullivan Street	3 NYU Card Services Annex (C-1) 125 East 12th Street	63 Student Resource Center (B-3) 60 Washington Square South	81 194 Mercer Street (B-3)
40 Gallatin School (B-2) 1 Washington Place	71 NYU Open House (B-3) 530 La Guardia Place	51 Student Services Center, Offices of the University Registrar, Bursar and Financial Aid (B-2) 25 West 4th Street	36 285 Mercer Street (B-2)
41 Global Liberal Studies (B-2) 726 Broadway	58 Off-Campus Housing (B-3) 60 Washington Square South		31 111-113 2nd Avenue (C-2)
30 Gluckman Island House (B-3) 1 Washington Mews			79 230 Sullivan Street (A-3)
			25 19 University Place (B-2)
			52 10 Washington Place (B-2)
			18 19 Washington Square North (NYUAD) (A-2)
			18 22 Washington Square North (A-2)
			51 25 West 4th Street (B-2)
			52 19 West 4th Street (B-2)



Travel Directions to the Washington Square Campus

See Washington Square Campus map and key for specific addresses or visit nyu.edu/map.

BY SUBWAY:

Take the **Lexington Avenue subway** (No. 6 train) to Astor Place Station. Go west on Astor Place to Broadway. Walk south on Broadway to Waverly Place. Walk westward on Waverly Place until Washington Square.

Take the **Broadway subway** (N or W train) to Eighth Street Station. At Broadway, walk south to Waverly Place. Walk westward on Waverly Place until Washington Square. *The N runs late at night and on weekends. The R also runs on weekdays and weekends, with limited late night shuttle service.*

Take the **Sixth Avenue subway** (B, D, F, or M train) or **8th Avenue subway** (A, C, or E train) to West Fourth Street-Washington Square Station. Walk east on West Fourth Street until Washington Square. *The A, E, and F trains run late at night. The C does not. The M runs on weekdays with limited late night shuttle service and weekends with shuttle service only. The B train runs weekdays only, from before 6 a.m. until 11 p.m., and the D runs at night.*

Take the **Seventh Avenue subway** to Christopher Street-Sheridan Square Station (1 or 2). Walk east on Christopher Street to West Fourth Street. Continue east to Washington Square. *The 1 and 2 trains run late at night.*

BY BUS:

All Greyhound and New Jersey Transit buses go to the Port Authority Terminal. Port Authority marine terminals in New York and New Jersey are open and operating normally. From there, take the Eighth Avenue subway downtown. The most convenient bus lines to NYU are the M1, M2, M3, M5, M6, M8, M10, and the M21.

**Note: For up-to-date information on Metropolitan Transportation Authority subway and bus services, visit mta.info.*



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