



NYU SHANGHAI

Undergraduate Bulletin | 2025-2026 Edition



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UNDERGRADUATE

Undergraduate Studies

With more than 270 areas of study, your fellow NYU community members are bound to be teaching, researching, or debating a topic that interests you. Follow your curiosity as you discover new ideas and build practical skills. Select a school below to explore your academic interests:

- College of Arts and Science (<https://bulletins.nyu.edu/undergraduate/arts-science/>)
- College of Dentistry (<https://bulletins.nyu.edu/undergraduate/dentistry/>)
- Gallatin School of Individualized Study (<https://bulletins.nyu.edu/undergraduate/individualized-study/>)
- Leonard N. Stern School of Business (<https://bulletins.nyu.edu/undergraduate/business/>)
- Liberal Studies (<https://bulletins.nyu.edu/undergraduate/liberal-studies/>)
- NYU Abu Dhabi (<https://bulletins.nyu.edu/undergraduate/abu-dhabi/>)
- NYU Shanghai (p. 3)
- Robert F. Wagner Graduate School of Public Service (<https://bulletins.nyu.edu/undergraduate/public-service/>)
- Rory Meyers College of Nursing (<https://bulletins.nyu.edu/undergraduate/nursing/>)
- School of Global Public Health (<https://bulletins.nyu.edu/undergraduate/global-public-health/>)
- School of Professional Studies (<https://bulletins.nyu.edu/undergraduate/professional-studies/>)
- Silver School of Social Work (<https://bulletins.nyu.edu/undergraduate/social-work/>)
- Steinhardt School of Culture, Education, and Human Development (<https://bulletins.nyu.edu/undergraduate/culture-education-human-development/>)
- Tandon School of Engineering (<https://bulletins.nyu.edu/undergraduate/engineering/>)
- Tisch School of the Arts (<https://bulletins.nyu.edu/undergraduate/arts/>)

NYU Shanghai

Overview

The NYU Shanghai academic experience is characterized by rigor, a global perspective, and a strong foundation in the liberal arts and sciences. Several distinct features define the NYU Shanghai approach and make it unique:

A Truly Innovative Core Curriculum

As our world evolves, education needs to evolve to meet the needs of 21st-century students. The NYU Shanghai core curriculum is defined by a global orientation. Students explore social and cultural foundations through courses that span cultures and contexts, both Chinese and international. Writing and language courses develop students' communication skills in both English and Chinese. Mathematics and science are a part of every student's education, as are courses which introduce or strengthen a student's understanding of algorithmic thinking.

Playing to Our Strengths

NYU Shanghai has carefully developed a set of majors and specializations that capitalize not just on the world-class strength of NYU faculty, departments, and programs, but also on the limitless possibilities that Shanghai provides.

Liberal Arts

Ever since Cicero, the Roman statesman, invented the phrase "artes liberales," the liberal arts and sciences have been the touchstone of excellence in education for all individuals, regardless of their professional aspirations. This is because these studies liberate an individual from narrowly vocational concerns and have been shown to free the mind to be creative. Today, this educational approach focuses on direct and critical engagement with the great ideas of the past and the present, on the development of the essential skills of analysis and communication, and on in-depth knowledge of one or more disciplines. A shared background in the liberal arts and sciences also has the power to transform a diverse group of students into a real community organized around the life of the mind.

Our aim is to give NYU Shanghai students a strong, globally-oriented foundation in the liberal arts and sciences. This curriculum will help students develop the ability to think analytically, read critically, and write effectively. It will also cultivate their creativity in solving problems, their tolerance for ambiguity, and their respect for diversity of opinion and the exchange of ideas. Finally, through the core curriculum, the majors, and international experiences in the NYU global network, students will learn to recognize themselves as part of a global community. The crucial role that China plays in that global community will be emphasized throughout the curriculum.

About NYU Shanghai

NYU Shanghai is China's first Sino-US research university and the third degree-granting campus of the NYU Global Network. We were founded in 2012 by New York University and East China Normal University with the support of the city of Shanghai and the district of Pudong.

NYU Shanghai seeks to cultivate globally-minded graduates through innovative teaching, world-class research, and a commitment to public service.

Our student body currently consists of nearly 2,000 undergraduate and graduate students, half of whom are from China. Students from the United States and some 70 other countries represent the other half. Our faculty of renowned scholars, innovators, and educators are recruited from the world's best research universities.

Vision

NYU Shanghai exemplifies the highest ideals of contemporary higher education by uniting the intellectual resources of New York University's global network with the multidimensional greatness of China. It guides students toward academic and moral excellence, preparing them for leadership in all walks of life, and it contributes to the endless quest for new insights into the human condition and the natural world.

Values

NYU Shanghai operates in accord with the values of curiosity, rigor, integrity, respect, harmony, responsibility, and deep engagement with all humanity.

Mission

NYU Shanghai aspires to offer outstanding teaching, research, and public service.

In teaching, NYU Shanghai aspires to prepare its students for lives of discovery, satisfaction and contribution. They will study with superb teachers who nurture their capacity for original, rigorous, and critical thinking, and with diverse and intellectually gifted classmates. They will pursue a liberal education in the humanities, social sciences, natural sciences, and mathematics. They will immerse themselves in English, the language of international communication. They will master the skills of cross-cultural effectiveness in a community where half are from China and half are from other lands. They will reflect upon the role that great cities play in human progress, and upon the interdependent relationship between China and the rest of the world.

In research, NYU Shanghai aspires to produce original, rigorous, and important insights across a broad set of academic domains. Such insights do more than extend existing knowledge in predictable ways; they provide fresh understanding that is fully consistent with our observations and at the same time promise to have a significant influence on the thinking of others.

In public service, NYU Shanghai aspires to promote healthy development within the many communities it inhabits. It strives to be a responsible actor in the individual lives of students, teachers, and staff; in the local neighborhoods that surround its campus; in the district of Pudong, the city of Shanghai, and the nation of China; in New York University; in the interdependent society of humankind; and in a fully global ecosystem.

Research at NYU Shanghai

NYU Shanghai continues in the great tradition of universities that combine world-class research with exceptional teaching. Research Institutes are established in the following areas: Center for Applied Social and Economic Research, Center for Artificial Intelligence and Deep Learning, NYU-ECNU Institute of Brain and Cognitive Science at NYU Shanghai, Center for Business Education and Research, NYU-ECNU Center for Computational Chemistry at NYU Shanghai, Center for Data Science and Artificial Intelligence, Center for Global Asia at NYU Shanghai, Center for Global Health Equity, NYU-ECNU Institute of Mathematical Sciences at NYU Shanghai, NYU-ECNU Institute of Physics at NYU Shanghai, Shanghai Key Laboratory of Urban Design and Urban Science, and Volatility Institute at NYU Shanghai. Both graduate and undergraduate students at NYU Shanghai will have the opportunity to participate in research opportunities. For more information, consult the Research at NYU Shanghai website (<https://research.shanghai.nyu.edu/>).

Academic Program

Three unique features define the NYU Shanghai approach and set it apart from most other undergraduate programs:

- A core curriculum for the 21st century, with globally-oriented as well as China-focused social and cultural courses, writing and language courses which develop students' communication skills in both English and Chinese, and courses which introduce or strengthen a student's understanding of mathematics, science, and algorithmic thinking;
- A carefully selected set of majors (or specializations) that capitalize on the world-class strengths of NYU's research faculty, departments,

and programs, as well as on the limitless opportunities that Shanghai presents;

- Access to the NYU global network through an unparalleled array of study-abroad opportunities, which are available at NYU sites around the world and which are easily integrated into students' programs of study.

Partners

East China Normal University

ECNU is a high-level normal university founded in October 1951. The university is made up of 19 full-time schools and colleges, two unconventional (nontraditional distance learning and continuing education) colleges and five advanced research institutes, with 58 departments offering 70 undergraduate programs. It has over 4,000 faculty and staff and more than 28,000 students.

Shanghai Municipal Education Commission

The Shanghai Municipal Education Commission (SMEC) is responsible for determining the local policies and direction of the educational system in Shanghai.

Pudong New Area Government

Since the beginning of its development in 1990 when plans were first announced, Pudong has become a major economic development zone and has emerged as China's financial and commercial hub.

Where We Are

Qiantan New Bund Campus

NYU Shanghai's new 114,000-square-meter campus is located in Pudong's Qiantan neighborhood, also called The New Bund. Composed of four interlocked structures set around an academic quadrangle, the award-winning campus—designed by Kohn Pedersen Fox and the Arcplus Institute of Shanghai Architectural Design & Research—serves as not only an academic base for the NYU Shanghai community but also a cultural hub for the Qiantan district.

The nine-story campus was designed to express the university's cosmopolitan spirit, integrating multiple architectural and cultural traditions; its courtyard integrates the Western 'cloister'-inspired quadrangle and the Chinese Scholars' Garden. Some facilities include a 5,000 square-meter library, 4,000-square-meter athletics space including a fitness center and two gymnasiums, a colloquium space, a state of the art recital hall, a 600-person auditorium, the NYU Shanghai Institute of Contemporary Arts with 600 square meters of exhibition space, a multi-level open space canteen that can seat several hundred diners, and classroom spaces that accommodate a range of students—from dozens to hundreds—with advanced digital equipment to meet the needs of online, offline and mixed-mode teaching.

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Residence Halls

NYU Shanghai students live in newly constructed apartment towers in the Houtan Area, located 2.3km from the Qiantan New Bund campus, a 10-minute drive or 15-20 minute bike ride away. The room types are designed for apartment-style living where students have their own private bathroom, kitchen, and living area. Students can select between single or double occupancy in suites or single, double, and triple occupancy studios. The neighborhood features a community center with food and gym offerings, green space, and a vibrant community.

In the Residence Halls, students are supported by a Resident Assistant (RA) or peer mentor. By living alongside fellow students and RAs, students form intimate living and learning communities that promote a holistic education and an exchange of ideas to continue and flourish beyond the classroom.

Programs

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- Neural Science (BS) (p. 304)
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- Self-Designed Honors (BA) (p. 311)
- Social Science (BA) (p. 313)
- Social Science (Minor) (p. 317)

Trivium and Quadrivium

In the Middle Ages and the Renaissance, the seven liberal arts were divided into two categories, known as the "trivium" (grammar, logic, rhetoric) and the "quadrivium" (arithmetic, astronomy, geometry, music). At NYU Shanghai, we have several programs that fall within these two categories where students can enrich their studies by exploring a language, creative writing or journalism courses, and the performing arts.

English for Academic Purposes (p. 115) Languages

- Arabic Language (p. 40)
- Chinese Language (p. 70)
- French Language (p. 132)
- Japanese Language (p. 187)
- Korean Language (p. 189)
- Spanish Language (p. 245)

Performing Arts

- Art (p. 40)
- Music (p. 203)

Writing

- Creative Writing (p. 89)
- Journalism (p. 188)
- Writing (p. 247)

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Academic Calendar

Fall 2025

Date	Event
Monday, September 1	Fall Semester Classes Begin/ 1st 7-week Classes Begin
Friday, September 5	Add and Drop Course Deadline - 1st 7-week Classes
Friday, September 12	Add and Drop Course Deadline - Fall Full Term Classes

Friday, September 22	January Term 2026 Class Schedule Published
Friday, September 26	Course Withdrawal & Pass/Fail Option Deadline - 1st 7-week Classes
Monday, September 29 - Monday, October 6	National Day Holiday/ Mid-Autumn Festival: Fall Break
Sunday, October 12	Legislative Day (classes follow Monday schedule)
Tuesday, October 14	January Term 2026 Classes Registration Begins
Monday, October 20	Spring 2026 Class Schedule Published
Friday, October 24	Last Day of 1st 7-week Classes
Monday, October 27	2nd 7-week Classes Begin
Friday, October 31	Midterm Progress Reports Deadline - Fall Full Term Classes
Friday, October 31	Add and Drop Course Deadline - 2nd 7-week Classes
Sunday, November 9	Legislative Day (classes follow Thursday schedule)
Monday, November 17	Spring 2026 Class Registration Begins
Friday, November 21	Course Withdrawal & Pass/Fail Option Deadline - 2nd 7-week Classes
Sunday, November 23	Legislative Day (classes follow Friday schedule)
Monday, November 24	Course Withdrawal & Pass/Fail Option Deadline - Fall Full Term Classes
Thursday, November 27 - Friday, November 28	Thanksgiving Holiday (No classes scheduled)
Friday, December 12	Last Day of Fall Semester Classes/ Last Day of 2nd 7-week Classes
Saturday, December 13	Reading Day
Monday, December 15 - Friday, December 19	Final Exams
Saturday, December 20	Fall Move Out (Study Away & Fall term-only students)
Final Grades Deadline	Grades are due 72 hours after the scheduled final exam date

Optional January Term 2026

Date	Event
Monday, January 5	January Term Classes Begin
Wednesday, January 7	Add and Drop Course Deadline
TBD	Course Withdrawal & Grading Option Deadline
Friday, January 16	Last Day of January Term Classes
TBD	Summer 2026 Class Schedule Published

Spring 2026

Date	Event
Monday, January 19	Spring Semester Classes Begin/ 1st 7-week Classes Begin
Friday, January 23	Add and Drop Course Deadline - 1st 7-week Classes
TBD	Summer 2026 Class Registration Begins
Friday, January 30	Add and Drop Course Deadline - Full Term Classes
Friday, February 13	Course Withdrawal & Pass/Fail Option Deadline - 1st 7-week Classes
Monday, February 16 - Friday, February 20	Spring Festival Holiday (No classes scheduled)
Friday, March 13	Last Day of 1st 7-week Classes
Monday, March 16	2nd 7-week Classes Begin
TBD	Fall 2026 Class Schedule Published
Friday, March 20	Midterm Progress Reports Deadline - Full Term Classes
Friday, March 20	Add and Drop Course Deadline - 2nd 7-week Classes
Monday, April 6 - Friday, April 10	Qingming Festival Holiday/ Spring Break
TBD	Course Withdrawal & Pass/Fail Option Deadline - Full Term Classes
TBD	Fall 2026 Class Registration Begins
Friday, April 17	Course Withdrawal & Pass/Fail Option Deadline - 2nd 7-week Classes
Sunday, April 26	Legislative Day (classes follow Friday Schedule)
Friday, May 1	China Labor Day Holiday (No classes scheduled)
Friday, May 8	Last Day of Spring Semester Classes/Last Day of 2nd 7-week Classes
Saturday, May 9	Reading Day
Monday, May 11 - Friday, May 15	Final Exams
Saturday, May 16	Spring Move Out (all except Summer Session & graduating seniors)
TBD	Commencement
Final Grades Deadline	Grades are due 72 hours after the scheduled final exam date

Optional Summer Term 2026

Date	Event
Sunday, May 17	Summer Move In Day
Monday, May 18	Summer Session I Classes Begin
Friday, May 22	Add and Drop Course Deadline - Summer Session I
Wednesday, June 10	Course Withdrawal & Pass/Fail Option Deadline - Summer Session I

Sunday, June 14	Legislative Day (classes follow Friday schedule)
Friday, June 19	Dragon Boat Festival (Duanwu Festival, no classes scheduled)
Friday, June 26	Last Day of Summer Session I Classes
Monday, June 29	Summer Session II Classes Begin
Friday, July 3	Add and Drop Course Deadline - Summer Session II
Wednesday, July 22	Course Withdrawal & Pass/Fail Option Deadline - Summer Session II
Friday, August 7	Last Day of Summer Session II Classes

Academic Policies

Degree Requirements

NYU Shanghai confers the following degrees on candidates recommended by the faculty of the majors and approved by the trustees of New York University:

Bachelor of Arts (BA)

- Economics
- Global China Studies
- Humanities
- Social Science

Bachelor of Science (BS)

- Biology
- Business and Finance
- Business and Marketing
- Chemistry
- Computer Systems Engineering
- Computer Science
- Data Science
- Electrical and Systems Engineering
- Interactive Media Arts
- Interactive Media and Business
- Honors Mathematics
- Mathematics
- Neural Science
- Physics

The general degree requirements are the same for the BA and BS.

To be eligible for the bachelor's degree, students must complete 128 credits with a cumulative grade point average of at least 2.0. Within these, students must fulfill the requirements of both a major and the core curriculum. The degree requirements to be fulfilled are those in effect during the term of the student's first registration in NYU Shanghai. Registration in another division of NYU does not constitute registration in NYU Shanghai. Students may petition to follow the graduation requirements of a later cohort but must abide by all of the graduation requirements of the later cohort and may lose requirements (but not

credits) earned for courses which meet requirements for the earlier cohort but not for the later one.

Readmitted students must fulfill the requirements as listed in the Bulletin published during the year of their readmission, unless their readmission letter states otherwise.

In very exceptional cases, a student may petition the Academic Standards Committee for approval of a change in the requirements as stated in the Bulletin.

Conferring of Degrees

Degrees are conferred in September, January, and May. The NYU Shanghai graduation ceremony occurs in May and the formal conferring of degrees takes place annually at Commencement in May.

All graduated students receive: a New York University diploma (issued by New York University), a NYU Shanghai diploma (issued by Shanghai New York University), and a NYU Shanghai graduation certificate (from the Ministry of Education of the PRC).

The Major

Major requirements, varying from subject to subject, are specified in the sections devoted to the course listings of individual majors. Generally, one-third to one-half of the total credits are earned in the major concentration.

Every student must complete a major with a cumulative grade point average in the major of at least 2.0. The student must be approved as a major and should review his or her program with an academic advisor each term.

It is not possible to guarantee that any particular course listed will be offered in a particular academic year. If failure to offer a course in a student's approved minor will delay their graduation, they should consult with their advisor to consider available options.

Declaration

Students should discuss their major plans with their advisors. It is best to concentrate on completing breadth and general education requirements in the first two years since interest in majors may change as students take classes in different disciplines and changing majors may delay graduation for some students.

Students may declare a major prior to registration for the next semester if they are registered for enough credits in the current semester so that at the end of it they will have completed at least 32 credits (typically when registering for fall of their second year). They must have a final grade of C, or current semester midterm grade of B, or higher in a designated prerequisite course for that major.

Students must declare a major prior to registration for the next semester if they are registered for enough credits in the current semester so that at the end of it they will have completed 64 credits (typically registering for fall of their third year). They must have a final grade of C, or current semester midterm grade of B, or higher in a designated prerequisite course for that major.

Petition for Late Major Change

Any major declaration or major change after the sophomore year requires a petition process. Students petition through their academic advisor for approval by the Area Head for the major which the student wishes to join, and final approval by the relevant Dean for the new major. The

petition should show how the student can graduate in a reasonable amount of time and how the student has the ability to be successful in the required major courses. The same petition process is required for students seeking to switch their primary and secondary major.

Limit on Credits Attempted and Earned

Students seeking to enroll past 144 credits earned and/or 168 credits attempted petition through their advisor for approval from the Academic Standards Committee to enroll in the next semester.

Residence Requirement

All coursework used to satisfy the 128-credit degree requirement must be completed in the NYU network. The courses used to complete the major or the minor must be taken in that disciplinary area. Students must be registered as full-time students in a minimum of six fall or spring semesters at the NYU Shanghai campus.

Prerequisite Courses for Declaring a Major

Prior to declaring a major, there are prerequisite courses that must be completed. Please consult each program's page for additional information.

Double Major

Students may attempt a double (second) major. A second major requires completing all of the major requirements except capstone and thesis paper requirements. Students are not permitted to do a capstone or thesis paper in their second major; instead they must take an approved upper level elective or electives in the major equal to the credit value of the capstone course or courses required for the second major. In some cases, courses may be applicable to both majors but no more than two major courses may be approved for double counting unless otherwise specified in the major section of the Bulletin.

Students should consult with their advisor before attempting a double major as the requirements of the first major and the second limit the options for students to pursue varied intellectual interests. It is also difficult to complete two majors in the standard 128 credits.

Core Curriculum classes do not count against double counting limits to fill major or minor requirements, but no single course may be used to meet more than two requirements.

The second major is declared the same way as the first but students do not receive priority in enrolling in second major classes before their last semester. Therefore, the ability to satisfy the requirements for an additional major cannot be guaranteed for any student and will be based upon course availability and the time that the student is willing to invest to satisfy all of the requirements of the additional major. In some cases, pursuing a double major will require a delay in graduation and/or limit study away opportunities.

Requirements for Minors

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the

minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

Regulations Pertaining to Both Major and Minor

The major and minor requirements to be followed are those stated in the major sections of the Bulletin in effect during the semester of the student's first registration in NYU Shanghai. A student may petition through their advisor to follow major graduation requirements as set out in a Bulletin from a subsequent year after their first semester of registration. If approved, they must meet those requirements as outlined in that edition of the Bulletin. Any courses they may have completed, or complete, which were required under the old major requirements but not under the new will be counted as general elective rather than major credit.

No credit toward the major or minor is granted for grades of C- or lower, although such grades will be computed into the grade point average of the major or the minor, as well as into the cumulative grade point average.

No course to be counted toward the major or minor may be taken on a Pass/Fail basis. (See "Pass/Fail Option" under Academic Policies in this Bulletin.)

In order to ensure that students do not have to compete for access to their required courses, registration priority is given to students who are registering for courses in their primary major. Although the university encourages the exploration of other disciplines, access to courses outside a student's primary major (including those courses that fulfill requirements for an additional major, minor, etc.) is on a space-available basis and is not guaranteed.

Time Limit

All requirements for a degree at NYU Shanghai must be met within a period of eight years from the date of matriculation. For students who are re-admitted to NYU Shanghai, the length of time is proportionately reduced.

Courses

The programs and courses offered at NYU Shanghai are designed for students who attend classes offered on a full-time basis. A full-time schedule normally consists of 16 credits per term, or 32 credits per year, which enables a student to complete the entire program of 128 credits in four years. Minimal full-time status entails completing at least 12 credits per term, or 24 credits per year. Failure to complete a minimum of 24 credits per year jeopardizes a student's full-time status and his or her eligibility to receive financial aid. Students may enroll in fewer than 12 credits in their final semester but still maintain full-time status if they are enrolled in the course(s) that they need to graduate that semester and have applied for degree conferral that term.

Students in good academic standing may register for more than 18 credits per term after their first year with the clearance of their academic advisor and approval of the Assistant Dean for Academic Affairs.

There are additional per credit costs for each credit above 18 as well as an additional registration fee and added costs for textbooks and materials in a given semester.

Change of Program

To make any changes in their program, including dropping or adding courses given in other divisions of NYU, students must access the Albert Student Center.

Adding Courses

The deadline for the adding of a course or a section is the end of the second week of the semester. The deadline applies to any course added by an NYU Shanghai student and to any NYU Shanghai course added by students from other divisions. The adding of any course or section after the end of the second week is generally allowed only when the student is changing levels within a discipline—for example, from a Chinese or mathematics course to a higher- or lower-level course in the same discipline. The changing of levels is permitted only with the written approval of the instructor, any other relevant administrators, and the student's advisor.

Auditing

Matriculated students in NYU Shanghai may audit (i.e., attend lectures without intending to receive credit) any course in NYU Shanghai with the consent of, and under the conditions established by, the instructor and the major. Auditors count against the enrollment cap for a course and may not preempt space required for students registering for a letter grade.

Courses cannot be audited as a means of satisfying requirements for an incomplete grade or as a means of changing a previous grade. World Language classes may not be audited. Students may not audit classes during their first year of enrollment at NYU Shanghai.

Students seeking to audit a course must register as an auditor by the end of the add/drop period and audited courses will appear on the student's official transcript. Special (non-degree) students may not audit courses. Once a course is declared as an audited course it may not be changed to a letter grade or pass/fail course. If the credit value of the audited course causes the total number of credits to exceed 18, an overload petition is required and overload charges apply.

Students that officially audit a course are expected to complete the work that is agreed upon by the instructor. There is no credit given for the course, though the course would appear on the student's record with a mark of "R" for Registered Auditor. If the student does not comply with the stated expectations, then the instructor could issue a "F" grade and that mark would be calculated into the student's overall GPA.

Attendance

Although the administration of NYU Shanghai does not supervise attendance of classes, it supports the standards imposed by instructors.

When students are ill, they are expected to notify professors in advance of class, if at all possible. If the instructor determines that it is an excused absence then the student should negotiate with the professor the time and place for make-up of assignments, tests and/or examinations missed. Students who have been seriously ill, hospitalized and/or miss more than a week of classes due to medical reasons, should contact their academic advisor to discuss appropriate options for missed classes and/or coursework.

A student with an injury or medical condition that requires ongoing accommodations (temporary or permanent) should contact the NYU Moses Center for Student Accessibility (CSA). If an accommodation is recommended by the Moses Center, then Academic Affairs may

communicate on behalf of students to advocate for excused absences/ extensions. Reasonable accommodations, considering the course objectives, student learning, and fair standards, are ultimately decided by the professor.

Students who, in the judgment of the instructor, have not substantially met the requirements of the course or who have been excessively absent are not considered to have withdrawn from the course if they remain on the roster and may be given the final grade of F.

Religious Holidays and Attendance

NYU, as a nonsectarian institution, and NYU Shanghai, as a degree-granting campus of NYU, adhere to the general policy of including in its official calendar only certain legal holidays. However, it has also long been NYU policy that members of any religious group may, without penalty, absent themselves from classes when compliance with their religious obligations requires it. In 1988, the NYU University Senate affirmed this policy and passed a resolution that elaborated on it as follows:

1. Students who anticipate being absent because of any religious observance should, whenever possible, notify faculty in advance of such anticipated absence.
2. Whenever feasible, examinations and assignment deadlines should not be scheduled on religious holidays. Any student absent from class because of religious 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 or days.
4. No adverse or prejudicial effects shall result to any student who avails himself or herself of the above provisions.

Policy on Class Conduct

Students are expected to attend all scheduled classes unless the instructor explicitly informs the class that other ways of doing the work are acceptable. The action to be taken in regard to tardiness, absence from class or making up late work is the responsibility of the individual instructor; the instructor should consult with the student's academic advisor and the Assistant Dean for Academic Affairs if major action, such as dropping the student from the course, is being considered.

All classes will be held at their scheduled hour on days immediately before and after all holidays and recesses. Both faculty and students are expected to be present.

Students are permitted to be absent from classes to participate in authorized contests, conferences, and presentations, provided the following conditions are met:

- All work missed must be made up to the satisfaction of the instructor(s) concerned;
- No trip shall involve an absence of more than two days, excluding days when classes are not scheduled;
- The total number of days of absence shall not exceed six per sport or per organization annually;
- Each student will obtain an absence authorization signed by the Assistant Dean for Academic Affairs. The student will present this authorization to the instructor. This is not an excuse for work missed.

Technology affords many students access to portable devices including cell phones, PDAs, and laptops. It is expected that students will respect

the wishes of faculty with regard to the use of electronic devices within the academic environment.

No student shall leave a scheduled exercise because of the absence of the instructor until a reasonable time has passed. By tradition and as a matter of courtesy, a student should wait 10 minutes before leaving.

Authorized Contests, Conferences, and Presentations

Authorized contests, conferences, and presentations are those approved by the Vice Provost for Academic Affairs. Authorized contests are limited to athletic games and matches involving official NYU Shanghai sports teams and to students on the active team roster; and academic competitions sponsored by an NYU Shanghai Academic Dean and to students selected to represent NYU Shanghai at the competition. Authorized conferences are limited to conferences sponsored by an NYU Shanghai Academic Dean and to students selected by NYU Shanghai to attend the conference (this is in addition to any selection process that the conference might have). In some cases limited funding may be available to students selected to attend a conference. Funding is not available to attend conferences to which all qualified NYU Shanghai students did not have an opportunity to apply for selection. Academic Affairs only provides funding for academic conferences. Non-academic conferences, including those focusing on leadership, are sponsored through Student Life and do not allow students approved absences from classes. Authorized presentations are limited to those at forums sponsored by an NYU Shanghai Academic Dean and presenters to those approved by NYU Shanghai. In some cases limited funding will be available to students selected for a presentation.

Leaves

Leave of Absence

NYU Shanghai expects its students to maintain continuous registration in an academic program with the exception of summer breaks. However, it is sometimes necessary or desirable for a student to take a leave from enrollment for a period of time. The duration of the leave generally will be a minimum of one academic semester, or an equivalent four month period, to a maximum of two academic semesters or the equivalent in months (8 months). Such leaves may be voluntary or involuntary, and will be handled in accordance with the NYU-wide Student Leave Policy and Procedure (<https://www.nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/student-leave-policy.html>). As it applies to NYU Shanghai, the “Dean of the School” refers to the NYU Shanghai Dean of Students and the “Provost” refers to the NYU Shanghai Assistant Provost for Academic Affairs. Questions about references to specific offices within this policy should be referred to the NYU Shanghai Dean of Students. The paragraphs below briefly summarize the NYU Policy, but individuals considering a leave are encouraged to review the full NYU policy referenced above before making any final decisions.

NYU Shanghai students are expected to absent themselves from campus during their leave of absence. They may not audit classes, hold a campus job, participate with a student club or organization, attend campus events, or live in NYU housing. They may visit the campus or any other University-owned facilities only with the written permission of the Dean of Students or designee. Students on leave may not enroll in courses until they are approved to return.

Voluntary Leave

NYU recognizes that situations may arise when a student may want to voluntarily interrupt his or her academic studies. The University is committed to handling reasonable requests for leaves in a responsible

manner. This policy may not be used in lieu of disciplinary action to address any violations of University rules, regulations, policies, or practices. A student who is granted a voluntary leave while on academic and/or disciplinary status will return to that same status.

Involuntary Leave

NYU may place a student on an involuntary leave of absence from that student’s academic program when that student:

1. poses a direct threat to health and safety of self or others; and
2. is not able or not willing to take a voluntary leave of absence.

This policy may not be used in lieu of disciplinary actions to address any violations of University rules, regulations, policies, or practices. A student who is placed on an involuntary leave while on academic and/or disciplinary status will return to that same status.

Returning from a Leave of Absence

Students returning from a leave of absence are expected to successfully complete one academic semester (Fall or Spring) of full-time coursework in Shanghai before being eligible to enroll in a study away program. If a student is absent for two or more consecutive terms, they will be placed on non-sanctioned leave. Any student who has been out of attendance and/or on non-sanctioned leave for two or more consecutive terms and who wishes to return must apply for readmission.

Study Away

Students are required to spend one semester studying at one of NYU’s global academic centers or degree-granting campuses or at an approved International Exchange Programs (IEPs).

The earliest a student may study away and maximum semesters they may study away:

- Students may choose to study away for up to two semesters within the three semester window of second semester sophomore year through second semester junior year, but study away during spring semester sophomore year may not be at the New York or Abu Dhabi campuses.
- Students are required to have satisfactorily completed Elementary Chinese II or 8 credits of English for Academic Purposes (EAP) before they are eligible to study away. Students should develop a study away plan in consultation with their academic advisor.
- Students must be in attendance in Shanghai in their final semester.
- Students may not register for capstone courses during study away semesters, capstone courses must be taken in Shanghai.
- There is the occasional student who will need an exception and be allowed to study away in fall of senior year and they would find out from consulting with their advisor how to petition the Academic Standards Committee for approval of the exception.
- NYU’s global network recommends students to have a 3.00 cumulative grade point average to study away.
- Not all courses that students need for their major are offered at the NYU global academic centers and degree-granting campuses. Students should work with their advisor to assure their study away plan allows them to fulfill their major requirements and make normal progress toward graduation.
- Students can reference global course options at NYU’s degree-granting campuses and study away sites through the spreadsheet Courses Satisfying Shanghai Degree Requirements.

- Cost of attendance varies between the Global Academic Centers and degree-granting campuses. Students can reference the cost estimator to get an estimate of their expected cost of attendance per semester.
- Students may take up to three courses in the same discipline in one study away semester, subject to the limitations imposed by offering departments and Global Sites.
- Students follow the academic calendar and course policies of the Site they are attending that semester.

University Policies

Privacy of Student Records

NYU Shanghai is fully committed to the protection of the privacy of student records. To assist with the guarding of this privacy, NYU Shanghai complies with the U. S. Family Educational Rights and Privacy Act (FERPA). This specifically means that any education records maintained by NYU or NYU Shanghai and directly related to students — such as grades, transcripts, and test scores — will not be released to others, including parents or guardians, without the student's consent, except as provided by U. S. federal regulations.

Education records refers to any record or document containing information directly related to a student (including computerized and electronic files, audio and video tape, photographic images, film, email, etc.) and is not limited to hard-copy documents or to a file with a student's name on it.

Family Educational Rights and Privacy Act (FERPA)

FERPA was enacted by the U. S. Congress to protect the privacy of students' education records, to establish the rights of students to inspect and review their education records, and to provide students with an opportunity to have information in their records corrected which is inaccurate, misleading, or otherwise in violation of their rights of privacy. FERPA also permits the disclosure by an institution without a student's prior consent of so-called "directory information" (see definition below), and of other personally identifiable information under certain limited conditions. Students have the right to file complaints with the U. S. Department of Education's Family Policy Compliance Office concerning alleged failures by an institution to comply with FERPA.

NYU Shanghai and NYU have designated the following student information as "directory information:" Name, dates of attendance, NYU school or college (i.e., NYU Shanghai), class, previous institution(s) attended, major field of study, full- or part-time status, degree(s) conferred (including dates), honors and awards (including dean's list), past and present participation in officially recognized activities (including positions held and official statistics related to such participation and performance), email address, and NetID. Important: See notes (1) and (2) below.

1. Email address and NetID are directory information for internal purposes only and will not be made available to the general public except in specified directories from which students may opt out.
2. Under U. S. federal law, address information, telephone listings, and age are also considered directory information for military recruitment purposes. Address refers to "physical mailing address" but not email address.

FERPA governs the release of personally identifiable information to both external and internal parties, including other University employees, parents, and government agents. The NYU Guidelines for Compliance with FERPA (accessible as indicated below) describe the circumstances

and procedures governing the release of information from a student's education records to such parties.

Disclosure of Personally Identifiable Information

Among other exceptions authorized by FERPA, prior consent of the student is not needed for disclosure of directory information or for disclosure to school officials with a legitimate educational interest in access to the student's educational record. School officials having a legitimate educational interest include any NYU Shanghai or NYU employee acting within the scope of her or his employment, and any duly appointed agent or representative of NYU Shanghai or NYU acting within the scope of their appointment. In addition, NYU or NYU Shanghai may, at its sole discretion, forward education records to the officials of another institution (a) in which a student seeks or intends to enroll if that institution requests such records, or (b) if the student is enrolled in or receiving services from that institution while she or he is attending NYU Shanghai or NYU. Other exceptions are listed in the NYU FERPA Guidelines.

Additional Information for Students about Records Access

Students may obtain additional information about access to their records from the NYU FERPA Guidelines. The NYU FERPA Guidelines may be viewed online, or by contacting the NYU Shanghai registrar. Students should also read the FERPA Annual Notice to Students.

Computing and Information Resources Code of Ethics

The ethical principles which apply to everyday community life also apply to computing. Every member of NYU Shanghai has two basic rights: privacy and a fair share of resources. It is unethical for any other person to violate these rights.

Privacy

- On shared computer systems every user is assigned an ID. Nobody else should use an ID without explicit permission from the owner.
- All files belong to somebody. They should be assumed to be private and confidential unless the owner has explicitly made them available to others.
- Messages sent to other users should always identify the sender.
- Network traffic should be considered private.
- Obscenities should not be sent by computer.
- Records relating to the use of computing and information resources are confidential.
- Nobody should deliberately attempt to degrade or disrupt system performance or to interfere with the work of others.
- Loopholes in computer systems or knowledge of a special password should not be used to alter computer systems, obtain extra resources, or take resources from another person.
- Computing equipment owned by departments or individuals should be used only with the owner's permission.
- NYU Shanghai computing resources are provided for university purposes and are governed by the NYU Shanghai IT Guidelines. Any use of computing resources for commercial purposes or personal financial gain must be authorized in advance. Many of the agreements that the university has specifically forbid this kind of activity.
- Computing and information resources are community resources and may not be used to violate applicable law. Theft, mutilation, and abuse of these resources violate the nature and spirit of community and intellectual inquiry.

System Administration

- On rare occasions, computing staff may access others' files, but only when strictly necessary for the maintenance of a system.
- If a loophole is found in the security of any computer system, it should be reported to the system administrator and not used for personal gain or to disrupt the work of others.
- The distribution and copying of programs, digital information and databases are controlled by the laws of copyright, licensing agreements, and trade secret laws. These must be observed.

This code of ethics lays down general guidelines for the use of computing and information resources, which are primarily governed by the NYU Shanghai IT Guidelines. Failure to observe the code may lead to disciplinary action. Offenses that involve academic dishonesty will be considered particularly serious.

Emergency Temporary Closing of the University

NYU Shanghai has an important commitment to students, parents, sponsors, benefactors and the community. Accordingly, the university will make every attempt to operate normally during severe weather or other emergencies. This includes holding classes, conducting research programs, and operating facilities and services. The university will attempt to operate normally unless such operation represents a clear danger to students, staff or faculty.

There may be occasions when the university community is served best by suspending normal operations. In that event, only the Vice-Chancellor (or the Provost if the Vice-Chancellor is away) has the authority to close NYU Shanghai and to specify those persons or group of persons who are free to leave or refrain from coming to campus.

Standard Operations

Unless the Vice Chancellor announces that NYU Shanghai is closed, everyone is expected to be in attendance as usual. When the university is in session, faculty members are expected to meet their scheduled classes and other obligations. If a faculty member is unable to meet a scheduled class, he or she should notify the relevant Dean and arrange either for a qualified substitute or for a future make-up session.

Freedom of Expression

NYU Shanghai values the freedoms of speech, thought, expression and assembly - in themselves and as part of our core educational and intellectual mission. If individuals are to cherish freedom, they must experience it. The very concept of freedom assumes that people usually choose wisely from a range of available ideas and that the range and implications of ideas cannot be fully understood unless we hold vital our rights to know, to express, and to choose. NYU Shanghai must be a place where all ideas may be expressed freely and where no alternative is withheld from consideration. The only limits on these freedoms are those dictated by law and those necessary to protect the rights of other members of the university community and to ensure the normal functioning of NYU Shanghai.

Rights

Within NYU Shanghai's campus buildings, any member of the NYU Shanghai community may distribute printed material, offer petitions for signature, make speeches, and hold protests or demonstrations. All such activities must be peaceful, avoiding acts or credible threats of violence and preserving the normal operation of NYU Shanghai. No event will infringe upon the rights or privileges of others, and no one will be permitted to cause significant harm to others, damage or deface property, block access to NYU Shanghai buildings or disrupt

classes. The enforcement of these conditions will not depend in any way on the message or sponsorship of the act or event. When guests are invited by the university or by a recognized campus organization, they may express their ideas not because they have a right to do so, but because members of the campus community have a right to hear, see, and experience diverse intellectual and creative inquiry. Defending that right is a fundamental obligation of NYU Shanghai. Controversy cannot be permitted to abridge the freedoms of speech, thought, expression or assembly. They are not matters of convenience, but of necessity.

Responsibilities

Freedom of expression must be at once fiercely guarded and genuinely embraced. Those who exercise it serve the NYU Shanghai community by accepting the responsibilities attendant to free expression. NYU Shanghai organizations that sponsor invited guests to campus are expected to uphold NYU Shanghai's educational mission by planning carefully to create safe and thoughtful experiences for those involved. Hosts are responsible for the behavior of their guests and should exercise due care to ensure that all participants abide by relevant laws and NYU Shanghai policies.

Human Subjects in Research at NYU Shanghai

NYU Shanghai is committed to the protection of the rights and welfare of human subjects in research projects conducted by NYU Shanghai faculty, staff and students. All research involving human subjects must be reviewed and approved by the NYU Shanghai's Institutional Review Board (IRB) prior to being conducted. Our policies and procedures manual, "NYU Shanghai Institutional Review Board Procedures for Human Subjects Research Protection", details not only the policies and regulations governing research with human subjects, but also the procedures for submitting research proposals for review.

The IRB is responsible for ensuring compliance with all applicable regulations (US and Chinese), local laws and customs and institutional policies. All human subjects research at NYU Shanghai is conducted in accordance with the US policy and regulations found in 45CFR46, as well as in accordance with Chinese policy and regulations found in Measures for the Examination of Ethics for Biomedical Research Involving Humans. In the event of conflict between applicable standards of protection, NYU Shanghai follows the standard that provides greater protection to human subjects.

The Principal Investigator (PI) is ultimately responsible for assuring compliance with applicable University IRB policies and procedures, and for the oversight of the research study. The IRB recognizes one PI for each study. The PI is expected to abide by the highest ethical standards and to develop a protocol that incorporates the principles of the Belmont Report. He/she is expected to conduct research in accordance with the approved research protocol and to oversee all aspects of the research by providing supervision of support staff, including oversight of the informed consent process. The PI is responsible for obtaining prior IRB review and approval for any proposed changes to research methodology, recruitment, consent procedures, etc. to a previously approved protocol, except where an immediate change in protocol is warranted to protect the health and welfare of subject(s).

Information about and policies applicable to human subjects in research at NYU Shanghai are available here (<https://research.shanghai.nyu.edu/resources/human-subjects/>).

Additional Policies

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- Requirements for Residence (p. 24)
- Graduation (p. 25)
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Honors and Awards

Matriculated students with superior academic records are honored in various ways, such as by placement on the Dean's Honors List, election to honor societies, and admission to major honors programs.

Additional information may be obtained from a student's advisor and from the Academic Affairs Office.

Honors

Dean's Honors List

A Dean's Honors List is compiled at the end of each academic year, in June. This is an honors roll of matriculated students who have achieved an average of 3.65 or higher for that academic year (September to May) in at least 28 graded credits. To be listed, a student must not have any grades of Incomplete or N at the time when the list is compiled. Note that grade point averages are carried to two decimal places (but are not rounded off).

Eligibility for Graduation With Latin Honors

All graded courses taken before a student's final semester while enrolled either in NYU Shanghai [or in another school of NYU] will be used in computing the grade point average on which Latin honors are based. Pass grades are not counted; grades received in courses taken at other institutions are also not counted. The student must also have a clean record of conduct.

The GPA cutoffs for each category are determined by the combined GPA distribution from all graded courses taken through the J-term before the graduating cohort's final spring semester. This means that final spring semester grades are not used for determining Latin Honors and no adjustments are made to a student's status regarding Latin Honors based on final spring grades. Latin Honors are calculated once a year and only students who have at least 110 earned credits before the spring semester and have their degree conferred that spring or earlier are eligible for consideration. Students who complete their graduation requirements before the beginning of the final spring semester have all grades counted toward calculating Latin Honors.

The GPA cutoff for summa cum laude is the GPA included within the top 5 percent of the graduating class. The cut off for magna cum laude is the GPA included within the next 10 percent of the class. The cutoff for cum laude is the GPA included within the next 15 percent of the class.

Major Honors

Students may be awarded degrees with major honors if they complete the designated honors sequence in the major, maintain the requisite grade point average, and are selected by their major faculty. No more than 10 percent of students in a major may graduate with major honors.

Students seeking admission to and graduation with major honors are expected to have a minimum grade point average of 3.65, both overall and in the major. Majors may exercise some flexibility in admissions, as follows. In rare cases where a candidate for admission to a major honors program falls short of the expected minimum GPA, the major leader may petition the Vice Provost for Academic Affairs for an exception. In all cases, once admitted, students are expected to maintain the GPA at the stipulated level in order to graduate with major honors. Should there be an exceptional circumstance in which the stipulated GPA is not maintained, the Vice Provost for Academic Affairs may be petitioned for an exception. If the case is compelling, the latter will inform the Registrar's office of the waiver.

All students completing departmental honors must make public presentations of their work, preferably at the NYU Shanghai Undergraduate Research Symposium held at the end of the academic year, or in a major forum (e.g., oral defenses or presentations) held in conjunction with the Undergraduate Research Symposium.

Provost's Award for Scholarship and/or Service

Presented by the Provost of NYU Shanghai to a graduating senior for outstanding accomplishment in either or both of these areas.

Dean's Award in Arts and Sciences

Awarded to the graduating senior who has excelled in arts and sciences and who has contributed in a noteworthy way to the life of the campus during four years.

Dean's Award in Business

Awarded to the graduating senior who has excelled in business and who has contributed in a noteworthy way to the life of the campus during four years.

Dean's Award in Computer Science, Data Science, and Engineering

Awarded to the graduating senior who has excelled in computer science, data science, and engineering and who has contributed in a noteworthy way to the life of the campus during four years.

Requirements for Residence

All coursework used to satisfy the 128-credit degree requirement must be completed in the NYU network. The courses used to complete the major or the minor must be taken in that disciplinary area. Students must be registered as full-time students in a minimum of six fall or spring semesters at the NYU Shanghai campus.

Graduation

Conferring of Degrees

Degrees are conferred in September, January, and May. The NYU Shanghai graduation ceremony occurs in May and the formal conferring of degrees takes place annually at Commencement in May.

All graduated students receive: a New York University diploma (issued by New York University), a NYU Shanghai diploma (issued by Shanghai New York University), and a NYU Shanghai graduation certificate (from the Ministry of Education of the PRC).

Awarding of Credit

Credit

Credit for Advanced Placement Examinations

NYU Shanghai does not assign credit for the Advanced Placement (AP) Program (College Entrance Examination Board), the International Baccalaureate (IB) Program, or the results of foreign maturity certificate examinations. In some cases students may be able to fulfill a core curriculum requirement based on their performance on one of these tests.

Credit for Courses at NYU Shanghai

To receive credit for a course, the student must register before attending, meet the requirements for attendance, and creditably complete all examinations and assignments prescribed by the instructor. Some majors also offer independent study for exceptional students.

Students receive credit for any course passed with at least a D or a P grade. Courses may not be used to meet major or minor requirements or as prerequisites for more advanced classes unless a grade of C or higher is earned. This means that grades of P or C- and lower may not be used to meet major or minor requirements or as a prerequisite for more advanced courses including in core curriculum sequences. Core courses must be taken graded on A-F scale and may satisfy the core requirement with grade of D or better.

Restrictions on Receiving Credit (Including Course Repeat Policy)

A student who has taken a course for credit or who has obtained a W in a course is permitted to repeat that course once. Students may not repeat more than two courses during their undergraduate careers. Students may not repeat courses in a designated sequence after taking more advanced courses. The majors determine the sequencing of courses. Students with questions regarding the repetition of courses or course sequences must consult their advisor. When a student repeats a course, no additional credit will be awarded. Both grades are recorded on the transcript and computed in the grade point average.

Students register for repeated courses. If the credit value of the repeated course causes the total number of credits to exceed 18, an overload petition is required and overload charges apply.

Credit for Courses at Other Schools and Divisions of New York University

NYU graduate courses may be taken with approval of the respective graduate program and NYU Shanghai undergraduate major and following the practices of that bulletin. Enrollment is dependent on availability and completion of any required prerequisites. If graduate courses are applied

toward the completion of requirements for the baccalaureate degree, no advanced credit is typically allowed for them in the University's graduate programs.

Students may take a total of 36 credits in other divisions of NYU, including any courses for particular minors approved by NYU Shanghai. Students seeking additional credits beyond the 36 credit limit must file a petition with their academic advisor.

Please note that restrictions apply. For details, students must check with their advisor before registering for any courses in other divisions. If a course is not approved in advance, students will not receive credit for it. If such courses are taken at schools outside NYU, the credit will not transfer to NYU Shanghai.

NYU Shanghai students only earn credit for courses taken within NYU's School of Professional Studies Cross School Minors, other SPS courses will not be counted toward major requirements, the GPA, or the minimum 128 credits required for graduation.

Credit for internet and online courses from other divisions or schools of NYU will not be counted toward the baccalaureate degree unless approved by petition.

Credit for Transfer Students

Inquiries regarding transfer applications should be directed to NYU Shanghai Office of Undergraduate Admissions (shanghai.admissions@nyu.edu).

Credit for Non-NYU Study Abroad

Once admitted to NYU Shanghai, all courses counted toward the degree must be taken on campus or during an approved study abroad semester at one of NYU's degree-granting campuses, Global Academic Centers or exchange partners, including those they need or wish to take during the summer.

Summer Session

Students who elect to take summer courses for credits must take them on campus or at one of NYU's Global Academic Centers, NYU New York, or NYU Abu Dhabi. Students who plan to take summer courses within the NYU Global Network need to get their course plan approved by their academic advisor for summer registration clearance before the appointed time.

Transfer Credit and Articulation Agreements

Credit for Transfer Students

Inquiries regarding transfer applications should be directed to NYU Shanghai Office of Undergraduate Admissions (shanghai.admissions@nyu.edu).

Grading

Examinations and Grades

Policies on Examinations

Preamble

The following policies represent an understanding between faculty and student concerning an important but often stressful period, especially at the conclusion of each academic semester and at mid-semester.

There should be no expectation that the following points will cover every conceivable situation. The student should anticipate the demands of the exam schedule, plan accordingly and early, and be prepared. The faculty should recognize that the student is encumbered with many tightly orchestrated and intensive obligations during this period over which he or she has no control: expectations should be reasonably consistent with the number of course units and, of course, should be made known to the student well in advance of the final examination period, preferably as part of the course syllabus.

In order to help students plan their time and study optimally for examinations, this document lays out in some detail the policies regarding final and in-term examinations. Instructors are requested to provide notification of the major in-term examinations in the course syllabus. The final examination date is posted early in the semester. It is the responsibility of the student to give his or her instructor sufficient notice and to work with the instructor to reschedule examinations if this is needed.

Definitions

- NYU Shanghai's official final examination period begins on the reading day immediately following the last day of classes and continues through the last day of scheduled final examinations, with the exception of reading day(s).
- Scheduled final examinations are those scheduled by the Registrar. An instructor may choose not to fix a schedule for final examination, but instead allow each student to choose the examination time; such exams are called self-scheduled examinations.
- Final examinations can either be comprehensive, covering all course materials, or non-comprehensive, covering only a part of the course.
- Major examinations during the semester are referred to here as in-term examinations.

In-term Examinations

In-term exams may only occur during regularly scheduled class hours. This means that exams may not run longer than the regular class period for the course and that instructors may not schedule alternative exam times. It is possible to administer an exam that takes longer than scheduled class times if the instructor divides the test into two parts and students take them over different class dates.

The only exception to the in-term testing policy is for students with registered academic accommodations that cause them to need additional time for tests.

Final Examinations

1. All scheduled final examinations are held at the end of the semester during NYU Shanghai's official final examination period. The last day of a class is not normally used for a final examination. Comprehensive final examinations are not required for each course, but are given at the option of the instructor. The reading day and weekend preceding the examination days are not used for examination purposes of any kind, unless a student chooses (and the instructor agrees) to take a self-scheduled examination during this time. Non-comprehensive final examinations or final projects (but not both) are allowed during this final examination period only in courses that do not give a final comprehensive examination.
2. Instructors return all work assigned no later than the last regular day of classes in courses for which there is a final examination. In cases when this is not possible, an answer key, solution sets or equivalent feedback should be provided unless the final examination will not cover material in work that has not been returned.

3. No other coursework, including laboratory or studio work, will be due during the final examination period unless it is assigned in advance and in lieu of the course's final examination. Regardless of whether there is a final examination in the course, no classes other than review sessions are held during the final examination period. Review sessions are scheduled for optimal attendance, and a serious effort should be made to accommodate students who cannot attend. In appreciation of the time required to prepare for final examinations, no other examinations, portfolio reviews, critiques or juries shall be scheduled for the last class day of a course with a final examination.
4. Instructors do not exert or submit to pressures to move an examination so that students can leave earlier nor pressure students to take an examination on a reading day or weekend preceding the final examinations period.
5. No student is required to take more than two scheduled final examinations during a 24-hour period. A student who has more than two final examinations scheduled during a 24-hour period or has two final examinations scheduled at the same time should first contact the instructors of the courses for assistance in resolving conflicts. If the problem cannot be resolved by that means, the student should contact the Assistant Dean for Academic Affairs.
6. Students are expected to present themselves at the place assigned at the start of the examination; late arrival will reduce the total time a student has to complete the examination, unless the instructor's course policy indicates otherwise. Instructors reserve the right to require attendance within a specific time period. Students who miss an examination with a reasonable excuse and wish to petition for a make-up final examination should check with the instructor.
7. Any student may review his or her corrected, graded final examination in the presence of an instructor or a teaching assistant. Any controversy arising from this review is dealt with in accordance with NYU Shanghai procedure for the appeal of grades and academic actions. A final examination that is not returned to a student will be kept available until the end of the next semester for review. In the event that the instructor or teaching assistant is not available for the review, the responsibility shall rest with the major leader of the instructor offering the course or his or her designee. Since instructors return all work assigned before the final examinations, they are not responsible for retaining unclaimed coursework.
8. Concerns related to a final examination, complaints about violations of the final examination policy or alterations of the final examination schedule should be directed to the Assistant Dean for Academic Affairs.

NYU Shanghai Student Guidelines for Taking Exams

NYU Shanghai has developed the guidelines below for in-class tests worth 10% or more of the final grade in a class so that students will share a uniform test-taking experience that creates a quiet, less stressful, and fair test site.

1. Tests that are worth more than 10% of the final grade will be held in a room or rooms that provide at least twice as many seats as students enrolled in the class.
2. Students follow an assigned seating chart for the test that randomizes the classroom and seating assignments for students. Students are seated in every other seat so that they are not in close proximity to others taking the same exam.
3. The tests are pre-marked with each student's name and assigned seat.

4. Students should arrive at the classroom at least 5 minutes before the exam starts.
5. Students must leave their backpacks/purses/ bags/laptops at the front of the room – taking with them to their seat only something to write with (no pencil cases are allowed). If other materials are permitted, the instructor will inform the proctors of specifically what is allowed.
6. Students must leave all hats, coats, and jackets at the front of the room as well. Students who normally wear scarfs for faith or cultural reasons may do so but must alter to expose ears.
7. An unlabeled bottle of water is permissible; food/gum/candy is not.
8. Any student who is **not** taking the exam should not be in the test room.
9. Proctors are not responsible for supplying any test-taking materials (pencils, calculators, etc.) to students who have arrived unprepared for the exam.
10. All mobile phones should be switched off and left at the front of the room, so that students do not have access to them during the exam. If a student is found with their mobile phone with them during the exam, this will be considered a violation of the exam guidelines.
11. A quiet test environment must be maintained. Students are not allowed to speak to each other (even to request to borrow a pencil from another student). If students need to speak, they should raise their hand and wait for the proctor to come over to them and help them with whatever question or problem they have.
12. The start time and finish time will be written on the board at the front of the room. The proctor should update the time remaining (in 15 minutes intervals) throughout the exam on the board so that students may gauge their progress and manage their time during the exam.
13. Any student arriving late will be permitted to take the exam, but they must finish at the prearranged time and will not be given any extra time.
14. Students must sit in their assigned seat with their named test. They have to show a proctor their NYU Shanghai University ID if asked.
15. Students in the wrong test room must go to the correct test room even if that means they start the test late.
16. Students cannot move their seat. There needs to be enough space between seats so that the purpose of the every other seat protocol is met.
17. Bathroom breaks are permitted only in what the proctor deems is an emergency. When permitted, the back-up/relief proctor will escort the student to and from the bathroom. When this is not possible, the proctor will note the time that the student left the exam room, and when they returned.
18. If a student finishes an exam early, they may leave the room once they have turned in their exam papers. They will not be readmitted once this occurs.
19. In the last 15 minutes of the exam, the remaining time left will be updated in 5 minute intervals.
20. Once time is up, the exam is finished and students must stop working. The proctor will make a note of individuals who did not stop working when told to and report this to the instructor.
21. All exam materials (answer sheets, scratch paper, test question paper) are to be collected by the proctor. Students should not leave the room with any test materials.

failure to show their NYU Shanghai University ID when requested, etc.) is a letter grade reduction on exam.

- Additional violations or refusal to comply with protocols will lead to additional penalties.
- Test protocol penalties are independent of, and in addition to, penalties for academic integrity violations. Both types of penalties are applied in as confidential a manner as circumstances permit.

Makeup Examinations

When examinations are missed because of illness, students are expected to notify professors in advance of the exam, if at all possible. If the instructor grants an excused absence or if a student has a recommended accommodation for a makeup examination from the NYU Moses Center for Student Accessibility (see “Students With Disabilities” section), then the student must arrange a makeup examination with the professor prior to the last day of the semester. The time and place of any makeup examinations are set by the instructor or the major area head. If the student is unable to sit for a final examination during the semester and requires a grade of incomplete, see below policy under “grades” and “incompletes.”

Grades

Students may obtain their final grades for each semester on Albert.

The following symbols indicating grades are used: A, B, C, D, P, F, and W. The following symbol indicates incomplete work: I. Only grades of A, B, C, D, or F earned in any NYU course while matriculated in NYU Shanghai, or earned in any of NYU Shanghai’s courses (courses suffixed by “-SH”) while matriculated in another division of NYU, are computed in the average. The following grades may be awarded: A, A-, B+, B, B-, C+, C, C-, D+, D, F. In general, A indicates excellent work, B indicates good work, C indicates satisfactory work, and D indicates passable work and is the lowest passing grade. F indicates failure. The weights assigned in computing the grade point average are as follows:

Grades Earned in Fall 2018 and Later

Grade	Grade Points
A	4.000
A-	3.667
B+	3.333
B	3.000
B-	2.667
C+	2.333
C	2.000
C-	1.667
D+	1.333
D	1.000
F	0.000

Grades Earned Prior to Fall 2018 and Earlier

Grade	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0

Penalties for Students Violating the Protocols

- The penalty for the first violation of test protocols (sitting in wrong seat, in possession of non-approved test taking materials, talking,

C-	1.7
D+	1.3
D	1.0
F	0.0

Courses for major, minor, or core requirements must be taken on an A-F grading scale. Courses may not be used to meet major or minor requirements or as prerequisites for more advanced classes unless a grade of C or higher is earned. This means that Grades of P, C- or lower may not be used to meet major or minor requirements or as a prerequisite for more advanced courses (see “Pass/Fail Option” for more details).

Computing the Grade Point Average

The grade point average can be obtained by determining the total of all grade points earned (quality points) and dividing that figure by the total number of credit hours completed (quality hours). For example: A student who has completed 8 points of A (4.0), 4 points of B (3.0), and 4 points of C (2.0) has a grade point average of 3.25. This is obtained by adding 8 (points of A) x 4.0 (point value of A), 4 (points of B) x 3.0 (point value of B), and 4 (points of C) x 2.0 (point value of C), which totals 52 (the total of all grade points earned), and then by dividing 52 by 16 (the total number of credit hours completed). This gives the grade point average of 3.25.

Policies on Assigned Grades

Once a final grade has been submitted by the instructor and recorded on the transcript, the final grade cannot be changed by turning in additional coursework.

To appeal an assigned grade (only final semester grades are assigned grades, midterm and individual assignment and paper grades are not appealable) the student should first consult with the instructor who assigned the grade to discuss the grading requirements for the course and how the grade was determined. If the student is not satisfied with the outcome of the discussion and wishes to appeal the grade further, a formal written appeal should be submitted to the Assistant Dean for Academic Affairs within one month of the date the grade was posted. An independent review of the grade will be undertaken. All of the student's work will be eligible for review to clarify how the grade was determined and to ensure the grade is consistent with academic guidelines and policies. The result of the appeal may be that the grade is lowered, raised, or stays the same. The decision of Academic Affairs in matters related to a course grade is final.

In the case of a course that has been repeated, both grades are recorded on the transcript and averaged together to be computed in the grade point average.

The grades for courses taken abroad in one of NYU's programs or at one of the exchange sites are recorded on the transcript and are also included in the grade point average. The grades for graduate courses taken at other divisions in the University are included in the grade point average, provided that permission to enroll is obtained prior to registration for the courses.

Not included in the undergraduate grade point average are grades for work done at institutions outside NYU's global network.

When a student repeats a course, no additional credit will be awarded. Both grades are recorded on the transcript and computed in the grade point average.

Grade of P

The grade of P (Pass) indicates a passing grade (A, B, C, or D) in a course taken under the pass/fail option. It is also used to indicate non-graded courses. The grade of P is not computed in the average. The grade of F under the pass/fail option is computed in the average. For more information and procedures to obtain the pass/fail option, see end of this section under “Pass/Fail Option.”

Grade of W

The grade of W indicates an official withdrawal of the student from a course in good academic standing. Please see “Change of Program” and “Withdrawing from Courses” for information on the regulations and procedures for withdrawing officially from courses.

Grade of I

The grade of incomplete (I) is a temporary grade that indicates that a student has not yet completed all requirements for a course as outlined on the syllabus but could pass the course if they were to complete those outstanding requirements. The “I” grade is only appropriate where unexpected and/or unavoidable circumstances—in most cases occurring near the end of the semester/term—have prevented a student from completing a limited number of remaining course requirements that can reasonably be completed by an agreed-upon deadline.

Additional information can be found on the Undergraduate Incomplete Policy page (<https://bulletins.nyu.edu/nyu/policies/undergraduate-incomplete/>). Graduate students should consult their school's specific policy for additional information.

Independent Study

Some majors offer independent study courses for students with exceptional qualifications. In these courses, the work is planned specifically for each student. Independent studies should build on previous course work, not replace existing courses, and may not substitute for required major courses or required core curriculum requirements. With prior approval they may count for general elective, minor, or major elective requirements.

Independent study courses allow the student to work independently with faculty supervision and counsel. The courses typically carry variable credit of 2 or 4 credits each term. They are normally limited to upper-class majors but may be open to other well-qualified upper-class students. To register for an independent study, a student must complete an independent study form and obtain the approval of all relevant faculty and the Vice Provost for Academic Affairs.

The result of the independent study course should be a paper or other objective, tangible evidence of completion of the work. In general, students are not permitted to take more than 12 credits of independent study during their four years, and no more than 8 credits may be taken in any one major. More specific information can be found by speaking with your academic advisor.

Pass/Fail Option

Students may elect one pass/fail option each term, including the summer sessions, for a total of not more than 32 credits during their college career. The choice must be made before the semester P/F deadline of the term; after that time, the decision cannot be initiated or changed. No grade other than P or F will be recorded for those students choosing this option. P includes the grades of A, B, C, and D and is not counted in the grade point average. F is counted in the grade point average.

The pass/fail option is not acceptable in coursework in fulfillment of requirements toward a major, minor, prerequisites for more advanced coursework, or the Core Curriculum requirements. Students considering the pass/fail option in their area of study or in required preprofessional courses should consult with their advisor about the effect of such grades on admission to graduate and professional schools. Students who change their majors may not be able to use courses taken under the pass/fail option to satisfy the requirements of their new majors. The form for declaring the pass/fail option may be obtained from the NYU Shanghai Advising or Registrar's website.

Chinese language (through Intermediate II) and English for Academic Purposes courses cannot be taken P/F. Courses in other languages and Advanced Chinese classes can be taken P/F but grades of C or higher must be earned for prerequisite to advance to higher level courses. Grades of P will not fulfill language course prerequisites.

Petitions

The NYU Shanghai Academic Standards Committee will consider petitions of students to waive graduation requirements or modify academic policies and regulations of NYU Shanghai. Students should be aware that only very exceptional cases, supported by valid and documented reasons, will be considered. After deliberation, the Committee's decisions on such matters are final. Petition instructions may be obtained from the Office of Academic Advising.

Withdrawals

Dropping or Withdrawing from Courses

Students are expected to maintain a full-time program as described above and are unable to reduce their program to part-time status if enrolled full-time at the beginning of the semester. Occasionally, they may drop or withdraw from a course if, because of reasons beyond their control, they cannot continue. Withdrawing from a full semester course during the first two weeks of the term is treated as a drop and will not appear on the transcript. Those courses withdrawn from during the third week through the semester withdrawal deadline of the term will be recorded with a grade of W. After the semester withdrawal deadline, no one may withdraw from a course except in cases of full semester withdrawal as recommended by the Student Health Center or Moses Center for Student Accessibility and accompanied by appropriate documentation. Students who are ill or have other serious personal circumstances should contact their advisor.

Complete Withdrawals

Students who wish to withdraw from all of their courses must meet and discuss their plans with their advisor, complete the required forms, and get the approval of the Vice Provost for Academic Affairs.

A student who withdraws officially from all courses in a term may register for the following term, subject to any limitations attached to their withdrawal approval. If the student is unable to attend NYU Shanghai during the term following the withdrawal, he or she should request a leave of absence from their academic advisor. For more information, see next page under "Attendance."

Standards of Conduct

The Academic Standards & Discipline policies of NYU Shanghai are summarized here. Unless otherwise noted, students should direct all questions or concerns regarding these policies to their Academic

Advisor, who will liaise with the appropriate members of the university administration as needed.

Academic Standards

The NYU Shanghai Academic Standards Committee reviews student records throughout the academic year. All of its actions are based on the grades to date at the end of the term.

Academic Integrity

This policy sets forth core principles and standards with respect to academic integrity for students at NYU Shanghai.

NYU Shanghai is a "community of the mind." Its students, faculty, and staff all share the goal of pursuing truth through free and open inquiry, and we support one another's endeavors in this regard. As in any community, membership comes with certain rights and responsibilities. Foremost among these is academic integrity. Cheating on an exam, falsifying data, or having someone else write a paper undermines others who are "doing it on their own"; it makes it difficult or impossible to assess fairly a student's interest, aptitude, and achievement; and it diminishes the cheater, depriving him or her of an education. Most important, academic dishonesty is a violation of the very principles upon which the academy is founded. For this reason, violations of these principles are treated with the utmost seriousness.

At NYU Shanghai, a commitment to excellence, fairness, honesty, and respect within and outside the classroom is essential to maintaining the integrity of our community. By accepting membership in this community, students take responsibility for demonstrating these values in their own conduct and for recognizing and supporting these values in others. In turn, these values will create a campus climate that encourages the free exchange of ideas, promotes scholarly excellence through active and creative thought, and allows community members to achieve and be recognized for achieving their highest potential.

In pursuing these goals, NYU Shanghai expects and requires its students to adhere to the highest standards of scholarship, research and academic conduct. Essential to the process of teaching and learning is the periodic assessment of students' academic progress through measures such as papers, examinations, presentations, and other projects. Academic dishonesty compromises the validity of these assessments as well as the relationship of trust within the community. Students who engage in such behavior will be subject to review and the possible imposition of penalties in accordance with the standards, practices, and procedures of NYU and its colleges and schools. Violations may result in failure on a particular assignment, failure in a course, suspension or expulsion from NYU Shanghai, or other penalties.

Faculty are expected to guide students in understanding other people's ideas, in developing and clarifying their own thinking, and in using and conscientiously acknowledging resources - an increasingly complex endeavor given the current environment of widely available and continually emerging electronic resources. In addition, students come to NYU Shanghai from diverse educational contexts and may have understandings regarding academic expectations that differ from those at NYU Shanghai. NYU values and respects all academic traditions; however, while at NYU Shanghai, students are expected to adhere to the norms and standards of academic integrity espoused by the NYU Shanghai community and will be assessed in accordance with these standards. Students should ask their professors for guidance regarding

these standards as well as style guide preferences for citation of sources for assignments in their courses.

Following are examples of behaviors that compromise the academic and intellectual community of NYU Shanghai and that are unacceptable.

1. **Plagiarism:** presenting others' work without adequate acknowledgement of its source, as though it were one's own. Plagiarism is a form of fraud. We all stand on the shoulders of others, and we must give credit to the creators of the works that we incorporate into products that we call our own. Some examples of plagiarism:
 - A sequence of words incorporated without quotation marks
 - an unacknowledged passage paraphrased from another's work
 - the use of ideas, sound recordings, computer data or images created by others as though it were one's own
2. **Cheating:** deceiving a faculty member or other individual who assess student performance into believing that one's mastery of a subject or discipline is greater than it is by a range of dishonest methods, including but not limited to:
 - Bringing or accessing unauthorized materials during an examination (e.g., notes, books, or other information accessed via phones, computers, other technology or any other means)
 - providing assistance to acts of academic misconduct/dishonesty (e.g., sharing copies of exams via phones, computers, other technology or any other means; allowing others to copy answers on an exam)
 - 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
 - submitting work (papers, homework assignments, computer programs, experimental results, artwork, etc.) that was created by another, substantially or in whole, as one's own
 - submitting answers on an exam that were obtained from the work of another person or providing answers or assistance to others during an exam when not explicitly permitted by the instructor
 - submitting evaluations of group members' work for an assigned group project which misrepresent the work that was performed by another group member
 - altering or forging academic documents, including but not limited to admissions materials, academic records, grade reports, add/drop forms, course registration forms, etc.
3. Any behavior that violates the academic policies set forth by NYU Shanghai.

NYU Shanghai Honor Code

Adopted from the CAS Honor Code

As a student in NYU Shanghai, you belong to a community of scholars who value free and open inquiry. Honest assessment of ideas and their sources is the foundation of what we do.

NYU Shanghai is a community of mutual trust and respect in which personal prejudice has no part in the critical evaluation of ideas. It is a place where differences of opinion can be subjected to deliberate and reasonable examination without animus.

As scholars, it is therefore as a matter of honor and good repute that we each commit ourselves to assuring the integrity of our academic community and of the educational pursuits we undertake together.

As a student in NYU Shanghai, I pledge that:

- I will perform honestly all my academic obligations. I will not represent the words, works, or ideas of others as my own; will not cheat; and will not seek to mislead faculty or other academic officers in their evaluation of my course work or in any other academic affairs.
- I will behave with decorum and civility, and with respectful regard for all members of the University—faculty, staff, and fellow students—our guests, and members of our wider communities.
- I will abide by NYU Shanghai and by NYU rules of conduct and policies on academic integrity and by the special requirements of any individual course of study or other academic activity.
- I will endeavor earnestly to uphold the values, standards, and ideals on which our university community depends and call on others to do so.

Procedures and Sanctions

The penalty for academic dishonesty is severe. The following are the procedures followed at NYU Shanghai:

1. If a student cheats on an examination or in laboratory work or engages in plagiarism, appropriate disciplinary action should be taken. The following actions may be taken:
 - a. The faculty member, with the approval of the Assistant Dean for Academic Affairs, may reduce the student's grade or give the student an F in the course.
 - b. If after lowering the grade or assigning an "F", the faculty member or the Assistant Dean for Academic Affairs believes a more severe penalty (i.e., probation, suspension, or expulsion) is warranted, they can refer the case to the Vice Provost for Academic Affairs for further action.
2. In all cases of either (a) or (b), the Assistant Dean for Academic Affairs will inform the student of any action in writing and send a copy of this letter to the Vice Provost for Academic Affairs. The letter will include the nature of the offense, the penalty, and the right of the student to appeal such penalty. A copy of the letter will be kept in a confidential file. The Vice Provost's copy will also be kept in a confidential file. (The faculty member and/or the Assistant Dean for Academic Affairs will meet with the student and discuss the nature of the offense and the action taken.)
3. For cases involving a second offense, the Vice Provost for Academic Affairs will determine if a mediated outcome is possible or proceed as follows:
 - a. Convene a five-member ad hoc committee of three faculty members, one staff member, and one student to examine the evidence. This ad hoc committee will consider if there are reasonable grounds to believe that an academic integrity violation has occurred and if so, will affirm the penalty. If the committee affirms the penalty, the Vice Provost will send the student by e-mail a penalty letter. The letter will advise the student of his or her right to appeal. The student will have two business days from the letter's delivery to request an appeal. The penalty will ordinarily be stayed during the pendency of appeal.
 - b. If the committee does not affirm the penalty, the report will be kept on file for a one-year period.
4. The student in all cases has the right to appeal to the Vice Provost for Academic Affairs.

Community Standards

Academic communities exist to facilitate the process of acquiring and exchanging knowledge and understanding, to enhance the personal and intellectual development of its members, and to advance the interests of society. In order to realize its purpose, the University and its members must be free from personal injury or harm; bias or harassment; intimidation or coercion; damage or loss of property; disruption of educational and social activities; unreasonable interference with the exchange of concepts and ideas; and unreasonable interference with the administrative and supporting services offered by the University. Accordingly, all student members of the University community are expected to conduct themselves in a manner that demonstrates mutual respect for the rights and personal/academic well-being of others, preserves the integrity of the social and academic environment, upholds the core values of the institution and supports the mission of the University. The University has an inherent right to address behavior that impedes, obstructs, or threatens the maintenance of order and attainment of the aforementioned goals by violating the standards of conduct set forth in the NYU Shanghai Student Conduct Policies and the Academic Standards set forth in this bulletin as well as other policies that may be established by the respective NYU Schools, Global Sites, and administrative offices of the University. Students are expected to familiarize themselves and comply with all University policies; the NYU Shanghai Student Conduct Policies and Process are available at Community Standards (<https://shanghai.nyu.edu/campuslife/community-standards/>).

Disciplinary Measures

Academic Warning

Students with cumulative grade point averages of 2.0 to 2.25 will receive an academic warning letter with recommendations for achieving an appropriate standard for academic performance. Students who are on academic warning are invited and encouraged to participate in the Academic Support Program to support them in improving their GPA.

Academic Probation

Any student whose record is deemed unsatisfactory will be placed on academic probation and will be so informed by letter. A record will be deemed unsatisfactory if, in any semester, the student fails to meet standards for good academic standing, defined as cumulative and semester grade point average above 2.0 and maintaining steady and substantial progress toward the degree. Steady and substantial progress toward the degree entails the completion, with satisfactory grades, of more than half of the courses (and credits) for which a student registers in any semester. In addition, it entails satisfactory progress in the student's major.

Failure to satisfy the conditions of probation will result in further academic sanctions and possibly dismissal from NYU Shanghai. The conditions usually require that the student

1. achieve a cumulative and semester grade point average of at least 2.0 during the probationary term,
2. not receive any grade below a C or any grade of I or P,
3. not withdraw from any course without securing the permission of the NYU Shanghai Academic Standards Committee prior to the withdrawal, and

4. participate fully in the Academic Support Program. More specific requirements may be imposed.

Students on academic probation may engage in co-curricular activities but may not hold office in university clubs or organizations without the approval of the NYU Shanghai Academic Standards Committee.

NYU Shanghai follows the Office of Global Programs policy regarding academic probation and study away admission. Students currently on academic probation are ineligible for study away.

Students on academic probation should be aware that they are usually ineligible for financial aid.

Students who are on academic probation are required to participate in the Academic Support Program, which includes additional meetings with advising and engaging with other resources to which students are referred.

Suspension

If a student fails to meet the minimal standards stated above at the end of the probation semester, the school will suspend them. Suspension is for a minimum of two semesters (Fall/Spring or Spring/Fall) and the student is required to follow NYU Shanghai procedures for departing from campus.

Suspended students may not:

- register for courses
- attend classes
- live in residence halls
- use campus facilities, such as athletic facilities, the library, and computer labs (and including all NYU facilities in other cities as well)
- participate in student activities
- be members of student organizations
- have student jobs

Note: Students on academic suspension may appeal to complete a summer/J-term course or hold a summer campus job if they started the class or job before they were suspended.

At the end of the two semesters, the student may petition to return to NYU Shanghai by completing the following steps:

1. Ask the Vice Provost for Academic Affairs in writing for permission to resume their studies.
2. Provide transcripts for any courses taken at other colleges or universities during the suspension even though academic credits earned during a suspension do not transfer back to NYU Shanghai.

To get approval to resume their studies the student must demonstrate that they are better prepared to perform above the minimum standards for graduation than before they were suspended. Students return from suspension on probation. They may only resume studies during a fall or spring semester and must study in Shanghai.

Academic Dismissal

A student who fails to meet minimum standards at any point after returning from a suspension is subject to a dismissal action. A dismissal action is a permanent severance; the student is required to follow NYU

Shanghai procedures for departing from campus and may not enroll again in the future.

The typical progression of academic actions is Probation, Suspension, and then Dismissal but the intent of the academic actions are to take measures that are in the student's best interest and therefore the school may bypass one or more of these steps in an unusual case.

Students suspended or dismissed from NYU Shanghai for failing to meet academic performance standards will be informed via e-mail two to three weeks after their most recent grades are posted for the enrolled semester. Students who have paid tuition for the next term at the time of dismissal will receive a full refund of those tuition and fees.

Internships

Internship Regulations

The visa requirements of the People's Republic of China do not allow international students to hold off-campus part-time jobs or paid internships. International students who wish to participate in off-campus internships must follow the Internship Registration Process to ensure that the position meets legal criteria and is registered with the Chinese government. There are currently no restrictions on Chinese national students participating in paid positions.

Placement Examinations, Degree Progress, and Transcripts

Placement Examination for Chinese Language

Testing and Placement

Entering students who are not native speakers of Mandarin take an online placement exam prior to their first registration in NYU Shanghai. Online tests result in placement into the appropriate-level course. The online placement exam is used for new incoming students only to assess their language proficiency for a preliminary placement into Chinese language courses. In the case a student would like to demonstrate proficiency beyond the intermediate two level, thereby fulfilling the language requirement, the student must take an in-person place-out exam.

Placement into the intermediate two level or a lower level course means that the student must continue his or her studies of Chinese until successful completion of the intermediate two level of Chinese, either through successful completion of CHIN-SHU 202 Intermediate Chinese II, CHIN-SHU 202A Intermediate Chinese II - Accelerated, or CHIN-SHU 211 Intermediate Chinese for Advanced Beginners). In order to progress to higher levels of Chinese, students must earn a grade of C or better. In order to satisfy the language requirement, students must earn a grade of C or better in Intermediate Chinese II or equivalent. Students may demonstrate equivalent proficiency by applying to take, and scoring an 85 or higher on a place-out exam. In some cases, adjustments in course placement may be made during the first weeks of class under advice and/or consent of instructors.

After matriculation, if a student requests to be placed out of intermediate two in order to fulfill the language requirement, the student must take an in-person place-out exam. The place-out exam must be taken and completed prior to the student's final semester. The intermediate two place-out exam is offered during the add/drop period at the start of

each semester. Requests for placeout/exemption exams at a different time must be submitted by email to the World Languages program (shanghai.worldlanguages@nyu.edu) at least thirty (30) days in advance of the proposed examination date/time.

Information on placement testing can be obtained from the Office of Academic Advising. Students may contact shanghai.worldlanguages@nyu.edu to request an in-person place-out exam. The in-person place-out exams are usually held at the beginning of each semester. More information can be found at the NYU Shanghai World Languages website (<https://worldlanguages.shanghai.nyu.edu/en/languages/chinese/>).

Quantitative Reasoning

A student who wishes to place out of the Core Curriculum Mathematics requirement or to place into a higher level math class will have the opportunity to take a math placement exam, usually held at the beginning of each semester and prior to fall/spring registration. Note: A student may attempt the same math placement exam only twice, with at least three months between each attempt.

Degree Progress

All students have access to their Degree Progress Report, as generated by the Office of the NYU University Registrar, on Albert, NYU's online registration and information system. The Degree Progress Report is a Student Information System (SIS) accounting of completed and remaining degree requirements. In addition, students are encouraged to consult their unofficial transcript while reviewing degree requirements.

Transcripts of Record

Unofficial transcripts are available on Albert.

A sealed NYU Shanghai official paper transcript should be requested from the NYU Shanghai Office of the Registrar by either physically visiting the office in the Pudong Academic Campus Building, Suite 1049, or sending an email from your NYU email account to shanghai.registrar@nyu.edu. Alternatively, students can request an official electronic transcript from the Albert Student Center. The "Request official transcript" link can be found under the "My Academics" section of Albert Student Center. Transcripts cannot be produced for anyone whose record has been put on hold for an outstanding University obligation. See the NYU Shanghai Registration website for further information on transcript requests.

Rank in Class

NYU Shanghai neither records nor reports students' class, college, or department rank. In an institution where students' educational experiences are so varied, class rank is not a meaningful way to measure achievement. An explanatory note to that effect is attached to the official transcript.

Requesting Enrollment Verification

Students can request an official paper Enrollment Verification from the NYU Shanghai Office of the Registrar by either

1. physically visiting the office in the Pudong Academic Campus Building, Suite 1049; or
2. sending an email from their NYU email account to shanghai.registrar@nyu.edu.

The following should be included in the request:

1. University ID Number
2. Current Name and any name under which you attended NYU
3. Date of Birth
4. School of the University attended
5. Dates of Attendance
6. Date of (Anticipated) Graduation

Seven business days should be allowed for processing from the time the Office of the Registrar is in receipt of a student's request.

For confirmation of a student's request, students should contact the Office of the Registrar at +86-21 2059 5750 or shanghai.registrar@nyu.edu.

Special Handling

If a request requires special handling, students must request a paper Enrollment Verification from the NYU Shanghai Office of the Registrar. Specific special handling instructions should be sent in writing by contacting shanghai.registrar@nyu.edu. Special handling includes:

1. Sending paper Enrollment Verification to the student in separate sealed envelopes addressed to admissions offices of other universities.
2. Sending paper Enrollment Verification with additional documents to be sent along with the NYU Shanghai Enrollment Verification. Additional documents can be sent to the Office of the Registrar via mail or email, or may be hand-delivered.
3. Specific requirements as part of the enrollment verification request (e.g. need passport number, dates outside of China, and countries being visited for visa purposes, etc.)
4. Requesting Enrollment Verification in Chinese/Bilingual form.
5. Express Delivery: The Office of the Registrar can assist students that are not on campus to deliver the paper Enrollment Verification via express mail.. Please note that requesting documents to be sent via express service does not guarantee the processing time. All requests are processed in the order in which the requests are received.
6. For express delivery, send the request to shanghai.registrar@nyu.edu with detailed contact information of receiver(s) (i.e. name of school/institute/company, address, post code, contact person, telephone number).

Note that all express-related expenses incurred shall be borne by the student requestor.

Arrears Policy

NYU Shanghai 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.

Diploma Arrears Policy

Diplomas of students in arrears will be held until their financial obligations to NYU Shanghai are fulfilled and they have been cleared by the Bursar. Graduates with a diploma hold may contact the Office of the Bursar to clear arrears or to discuss their financial status at NYU Shanghai.

Diploma Application

Students may officially graduate in September, January, or May. NYU Shanghai holds a baccalaureate ceremony in May. Students must apply for graduation on Albert, and they must be enrolled for either course work, leave of absence, or maintenance of matriculation during their final semester.

To graduate in a specific semester, students must apply for graduation within the application deadline period indicated by the Office of the Registrar. It is recommended that students apply for graduation no later than the beginning of the semester in which they plan to complete all program requirements. Students who do not successfully complete all academic requirements by the end of that semester must reapply for graduation for the following cycle.

Admissions

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Core Curriculum

Core Curriculum

The Core Curriculum forms the center of NYU Shanghai's globally-oriented liberal arts and sciences education. Through Core courses, students deepen their intellectual engagement with diverse perspectives from the past and present; they gain increased awareness of distinct disciplinary approaches to problem-posing and analysis; and they develop skills to ethically and effectively respond to global challenges.

Core Curriculum Components

Core Component	Required Courses
Social and Cultural Foundations	Global Perspectives on Society (4 credits)
	Perspectives on the Humanities (4 credits) (also fulfills Writing)
	Interdisciplinary Perspectives on China (2 courses/8 credits total)
Writing	Writing as Inquiry (4 credits)
	Perspectives on the Humanities (4 credits) (also fulfills Social and Cultural Foundations)
Language	Chinese (through Intermediate II or equivalent competency)
	or
	English for Academic Purposes (8 credits in a two-semester course sequence or equivalent competency)
Mathematics	Mathematics course (4 credits)
Science	Experimental Discovery in the Natural World course (4 credits)

Science, Technology and Society
course (4 credits)

Algorithmic Thinking

Algorithmic Thinking course (4
credits)

Social and Cultural Foundations

Courses in the Social and Cultural Foundations sequence will provide students with a thematic framework within which to study influential works of diverse cultures, from the beginnings of history to the present, and from global and interdisciplinary perspectives. Students will reflect on fundamental and enduring questions about what it means to be human and how we as individuals live in society. These courses will teach students to take a global perspective as they read and interpret great works and ideas of the past and present; to ask critical questions, find unstated assumptions, and assess evidence presented in empirical and theoretical scholarship; to deepen their understanding of the history and development of contemporary China; and to communicate complex ideas with clarity.

The Social and Cultural Foundations component includes four required courses:

- A survey course called *Global Perspectives on Society*
- A writing course called *Perspectives on the Humanities*
- Two courses from the category *Interdisciplinary Perspectives on China*

Global Perspectives on Society (GPS)

In this course, we will explore a set of timeless questions about how society is, or should be, organized, based on close examinations of diverse thinkers and writers from different times and different cultures. The questions raised in this course will engage the moral, social, cultural, and political foundations of human relationships, the principles according to which people assemble into societies of different scales, and the bases for interaction among societies in a world of accelerating interdependence. By engaging texts that explore these questions from multiple perspectives, students reflect on several overarching issues, including how different societies have organized their economic and political institutions, how those societies fashion both shared identities and hierarchies of difference, how people experience themselves as “individuals” or as members of a collectivity, how they experience both time and space, and how they engage with human and non-human others both locally and globally. Over the semester, students develop skills that are central to a liberal arts education, including reading carefully and thoughtfully, considering questions from more than one perspective, participating in respectful and serious intellectual explorations of difficult topics, evaluating evidence and arguments, and developing methods of communication that make effective and appropriate use of the ideas of others as they present the students’ own ideas to different audiences and through different media. Each week, students will meet twice as an entire class for lectures and once in smaller discussion sections led by one of New York University Shanghai’s Global Perspectives on Society Postdoctoral Fellows.

Perspectives on the Humanities (PoH)

Perspectives on the Humanities is a content-based writing seminar, which introduces students to the questions asked and methods used by a variety of disciplines in the humanities, including philosophy, history, and literature. In the fall of their second year at NYU Shanghai, students choose from a variety of Perspectives on the Humanities topics. *Perspectives on the Humanities* is also designed to reinforce and advance the writing and thinking skills learned in the first-year *Writing as Inquiry*

workshop. In addition to satisfying one Social and Cultural Foundations requirement, this course satisfies one of two writing requirements (see Writing).

Interdisciplinary Perspectives on China (IPC)

By completing two *Interdisciplinary Perspectives on China* courses, students will be able to identify basic dimensions of China’s current and historical contexts, and they will be able to combine this knowledge with disciplinary theory to analyze past and present issues confronting Chinese society. Through their ability to identify important dimensions of Chinese culture and society and their familiarity with relevant theoretical approaches, students will develop an analytically engaged perspective on their own immediate context in Shanghai and China, in all of its cultural richness, social diversity, and political and economic complexity.

Interdisciplinary Perspectives on China courses cover a wide range of disciplinary and interdisciplinary approaches. They include history, philosophy, culture, art, and literature disciplines that use critical methods and primarily take a comparative and historical approach. They may also engage in both qualitative and quantitative analyses, using a range of analytical, interpretive, and experimental tools from anthropology, economics, sociology, political science, and psychology. *Interdisciplinary Perspectives on China* courses may be taken at any point in a student’s undergraduate experience.

Interdisciplinary Perspectives on China Courses

Code	Title	Credits
ECON-SHU 221	China’s Financial System	4
ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective	4
ECON-SHU 239	China’s Economic Transition	4
GCHN-SHU 101	Introduction to Chinese Civilization	4
GCHN-SHU 102	History of Modern China Since 1840	4
GCHN-SHU 108	THE WORLD OF YUNNAN: Culture, History, and Life Along China’s Southwestern Borderlands	4
GCHN-SHU 110	The Concept of China	4
GCHN-SHU 111	Shanghai Stories	4
GCHN-SHU 112	China Stories: Traditions and Transformations	4
GCHN-SHU 123	Contemporary Chinese Political Thought	4
GCHN-SHU 126	The Media in China	4
GCHN-SHU 133	Visualizing Global China	4
GCHN-SHU 145	Food in Chinese History	4
GCHN-SHU 156	History of Chinese Art	4
GCHN-SHU 164	The History of the Silk Road	4
GCHN-SHU 165	China and the Islamic World, c.600AD-Present	4
GCHN-SHU 182	Crimes, Detectives, and Justice in Chinese Culture	4
GCHN-SHU 185	China in Ten Soundtracks: The Sonic World of Modern Chinese Culture	4
GCHN-SHU 205	Hong Kong Cinema	4
GCHN-SHU 206	Woman in Modern China Through Literature and Media	4
GCHN-SHU 207	20th-century Chinese Writers in Global Context	4
GCHN-SHU 210	China Encounters the World	4
GCHN-SHU 211	Chinese Architecture	4
GCHN-SHU 220	History of Chinese Cinemas	4
GCHN-SHU 225	Cultural Translations: China and the West	4
GCHN-SHU 226	Queer China	4

GCHN-SHU 233	Foreign Societies in Classical Chinese Writing	4
GCHN-SHU 234	Dunhuang and Its Global Connections	4
GCHN-SHU 236	Immersive Narrative of Chinese Monuments	4
GCHN-SHU 243	China and the Environment	4
GCHN-SHU 246	Youth and Consumer Culture in China	4
GCHN-SHU 247	Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors.	4
GCHN-SHU 248	Animals and Chinese Religion	4
GCHN-SHU 250	Geographies of China	4
GCHN-SHU 255	Eat, Pray, Ponder: Chinese Intellectual Culture through the Ages	4
GCHN-SHU 263	Voices from the Margin: Modern Chinese and Sinophone Writers	4
GCHN-SHU 264	Chinese Migrant and Diasporic Networks	4
GCHN-SHU 265	Women in China: From May 4th to Me Too & Beyond	4
GCHN-SHU 267	Good Death: China and Comparative Perspectives	4
GCHN-SHU 277	Medicine in China	4
GCHN-SHU 283	Reading and Viewing Modern China	4
GCHN-SHU 311	Global Connections: Shanghai	4
GCHN-SHU 318	Sex and Power in China, 1500–1950	4
GCHN-SHU 350	Tianxia: Traditional China and the World	4
GCHN-SHU 360	Reading Medieval China through Dunhuang Manuscripts	4
HIST-SHU 155	Chinese American History: From the California Gold Rush to the Cold War	4
HIST-SHU 188	Empires in World History	4
IMBX-SHU 263	Fashion Industry in East Asia	4
INTM-SHU 267	The Cultivated City	4
PHIL-SHU 105	Introduction to Chinese Philosophy	4
PHIL-SHU 110	Traditional Chinese Political and Legal Philosophy	4
SOCs-SHU 236	The Chinese Family	4
SOCs-SHU 237	China Meets Europe	4
SOCs-SHU 254	Ethnographies of Change in China	4
SOCs-SHU 270	Social Change in Contemporary China	4
SOCs-SHU 275	US-China Relations	4
SOCs-SHU 278	Finding Sociology in Chinese Cities: Shanghai and Hong Kong	4
SOCs-SHU 331	Politics in China	4
SOCs-SHU 341	Cross-Strait Relations	4
SOCs-SHU 370	China's Foreign Policy	4
SOCs-SHU 388	Chinese Social Stratification in Comparative Perspective	4

Writing

At NYU Shanghai, writing and academic inquiry lie at the core of a liberal arts education. The Writing Program plays a vital role in achieving this mission by offering two Core Curriculum writing courses (<https://shanghai.nyu.edu/content/core-writing-courses/>), Writing as Inquiry and Perspectives on the Humanities, along with a variety of creative writing (<https://shanghai.nyu.edu/academics/minors/creative-writing-courses-and-creative-writing-minor/>) and journalism courses.

In Writing as Inquiry, the first-year workshop, students read texts and respond by writing their own. In doing so, they add their critical

perspectives to ongoing academic and public conversations. Students work to write sophisticated and cogent prose, and learn to effectively incorporate written texts in the development of their own arguments. Class discussions include strategies for every step of the writing process—from invention and organization to research and revision. In a workshop setting, students analyze the work of their peers and respond to feedback on their own writing. By the end of the course, students should be able to recognize rhetorical strategies and genre conventions, dissect difficult textual material, and build clear and convincing arguments that matter both within and beyond academic contexts.

Following this foundational course, students advance to Perspectives on the Humanities, a thematic seminar with writing, discussion and workshop components. This course fulfills the Social and Cultural Foundations requirement within the Core Curriculum. Building on the critical thinking and writing skills cultivated in Writing as Inquiry, it introduces students to multidisciplinary approaches within the humanities. In this course, students not only acquire a nuanced understanding of the subject matter, but also practice advanced techniques of close reading and analysis. Compared with Writing as Inquiry, students tackle longer, more complex texts often in diverse genres or media forms, explore a broader spectrum of disciplinary perspectives, and apply their acquired content knowledge to produce written work of greater depth and sophistication.

The habits, dispositions, and skills developed in the core writing courses are transferable across diverse communication contexts—academic, civic, business, personal, and creative. The ability to think critically and express ideas with clarity and nuance will serve students well in any future career path they choose.

Outstanding student writing from the two core writing courses is published each year in The Hundred River Review (<https://www.hundredriver.org/>).

Language

Language study is central to NYU's educational mission to develop well-rounded global citizens. Through language study, students gain the ability to operate effectively in multilingual and multicultural contexts. All NYU Shanghai students will be able to use English and Chinese for a range of communicative aims.

Chinese Language

Core Chinese language courses prepare students to develop the communicative skills and competencies that allow them to engage in interpersonal and intercultural exchanges in the target language. Students will develop a greater cultural awareness of the context in which they study.

Required courses or proficiencies for Chinese: Students are required to successfully complete the intermediate two level of Chinese, or to demonstrate an equivalent competency through a placement exam. They are encouraged to develop as much proficiency in Chinese as their major course of study allows. In the summer before the first year, students who did not attend a Chinese-medium high school will have their Chinese language level assessed and will be placed into the appropriate level course. The Chinese language program offers multiple modalities of instruction, including formal intensive coursework during Summer Sessions, online self-study, and co-curricular language coaching with immersion experiences. In order to study away, students must successfully complete Elementary Chinese II with a grade of C or better. To satisfy the language requirement, students must earn a grade of C or

better in Intermediate Chinese II or equivalent. In addition, students may demonstrate equivalent proficiency by applying to take and scoring an 80 or higher on a placement exam.

Course	Title	Credits
CHIN-SHU 101	Elementary Chinese I	4
CHIN-SHU 102	Elementary Chinese II	4
CHIN-SHU 201 or CHIN-SHU 221	Intermediate Chinese I Chinese Immersion Program: Intermediate I	4
CHIN-SHU 202 or CHIN-SHU 222	Intermediate Chinese II Chinese Immersion Program: Intermediate II	4

English for Academic Purposes

Core English for Academic Purposes (EAP) courses prepare students who did not attend an English-medium high school to engage communicatively at the high level demanded by the university's liberal arts context.

Required courses or proficiencies for English: Chinese speakers who did not attend an English-medium high school are required to complete up to 8 credits of EAP in the first two years, following a two-semester course sequence from EAP 100 to EAP 101. Most students will complete a four-credit EAP seminar in the fall term and an EAP 101 seminar in the spring term. A small number of students taking course sequences in the sciences will be eligible to take EAP 100 in the Spring semester of their first year. Students must successfully complete the two-course sequence before the end of their second year, prior to their study away semester. Students who demonstrate exceptionally strong competence on all learning outcomes as they complete EAP 100 may be recommended by faculty for exemption from EAP 101. Exemptions are rare and most students should expect to complete the full eight credits of EAP.

Course	Title	Credits
EAP-SHU 100	English for Academic Purposes I	4
EAP-SHU 101	English for Academic Purposes II	4

Mathematics

Math core courses are an initiation to the use of mathematics to model and understand natural phenomena. Students are expected to acquire basic computational skills and the understanding of foundational mathematical notions. In addition, students are exposed to proofs and logical operations in mathematics.

Students may fulfill their math requirement by taking *Precalculus* or *Great Ideas in Mathematics*, by taking other courses designated as fulfilling the Mathematics component, or by placing out of the requirement.

The relevant exam scores which may be used to fulfill the core curriculum mathematics requirement are listed below. No corresponding credit is awarded and test scores cannot be used to fulfill a prerequisite for an upper-level course in that area.

Mathematics Courses & Relevant Exam Scores

Code	Title	Credits
HIST-SHU 157	A Global History of Mathematics	4
MATH-SHU 9	Precalculus	4

MATH-SHU 10	Quantitative Reasoning: Great Ideas in Mathematics	4
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AP Examination	Score	Core Requirement Satisfied
AP Calculus AB or BC	Score of 4 or higher	Mathematics
IB Mathematics HL	Score of 6 or higher	Mathematics
A Level Mathematics	Score of B or higher	Mathematics
NYU Shanghai Placement into Calculus		Mathematics

Science

Scientific knowledge and inquiry are central to human society, and science and technology play an increasingly important role in our lives. At the heart of the natural sciences is a quest to understand the universe, the biosphere, and who we humans are. The special feature of science is that its hypotheses can be tested under controlled conditions by appealing to evidence external to the inquirer. Thus, science provides a consistent framework for proposing ideas and testing potential answers to these questions. NYU Shanghai students will become conversant with the fundamental concepts and applications, intellectual methods and analytical techniques that define modern science.

The science component has two required courses:

1. One lab-based course to fulfill Experimental Discovery in the Natural World;
2. One non-laboratory-based course to fulfill Science, Technology, and Society.

In Experimental Discovery in the Natural World (ED) courses, students are introduced to the foundations and frontiers of scientific investigation in the physical and life sciences. Through the laboratory experience, students develop the ability to use experimental methods to understand the world.

In *Science, Technology, and Society* (STS) courses, students study science and/or technology in their wider context. This may involve thinking about science and technology from a different disciplinary perspective—philosophical, historical, sociological, economic or political, for example. But it may also involve taking science and technology themselves as the focus of scientific investigation, as for example in a course that focuses on the limits of statistical methods, or on formal approaches to the social structure of science. Alternatively, STS courses may examine a single topic from a range of perspectives that include, but are not limited to, scientific and technological perspectives, such as in a course that focuses on environmental politics, global health, bioinformatics, or smart cities. What unites STS courses is a reflective attitude to the nature of science and technology, and taking science and technology themselves as the primary objects of study.

ED and STS courses cover a wide range of disciplinary and interdisciplinary approaches; these courses may be taken at any point in a student's undergraduate experience.

Students who pursue degrees in some STEM disciplines¹ will complete the Science core requirements by fulfilling the requirements in those majors.

The relevant exam scores which may be used to fulfill the Core Curriculum *Experimental Discovery in the Natural World* requirement are

listed below. No corresponding credit is awarded and test scores cannot be used to fulfill a prerequisite for an upper-level course in that area.

Experimental Discovery in the Natural World Courses and Relevant Exams

Code	Title	Credits
BIOL-SHU 5	Nutrition, Fitness and Health	4
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 123	Foundations of Biology Lab	2
CCEX-SHU 1	Principles of Life-From Cells to Organisms	2
CCEX-SHU 3	Explore the Cell: from Gene to Protein	2
CCEX-SHU 115	Experiments in Food Science	4
CCEX-SHU 120	Biology for a Changing World	4
CCEX-SHU 122	Perception and the Brain	4
CCEX-SHU 136	Human Genetics: Genes in Human Health & Diseases	4
CCEX-SHU 137	Human Genetics: Genes in Human Health & Disease Lab	2
CCEX-SHU 170	While You Were Sleeping	4
CCEX-SHU 203	Energy and the Environment	4
CCEX-SHU 214	How Things Work	4
CENG-SHU 201	Digital Logic	4
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
EENG-SHU 251	Circuits	4
INTM-SHU 130	Working with Electrons	4
INTM-SHU 222	Introduction to Robotics	4
INTM-SHU 244	Bio-Inspired Robot Systems	4
PHYS-SHU 11	General Physics I	3
PHYS-SHU 71	Foundations of Physics Lab I	2
PHYS-SHU 91	Foundations of Physics I Honors	3
PSYC-SHU 101	Introduction to Psychology	4

AP Examination	Score	Core Requirement Satisfied
A Level Psychology	Score of B or higher fulfills core; score of A fulfills core and course equivalency for PSYCH-SHU 101	Experimental Discovery (ED)
AP Psychology	Score of 4 or higher fulfills core; score of 5 fulfills core and course equivalency for PSYCH-SHU 101	Experimental Discovery (ED)
IB Psychology HL (Higher Level)	Score of 6 or higher fulfills core; score of 7 fulfills core and course equivalency for PSYCH-SHU 101	Experimental Discovery (ED)
AP Physics C- Mech or AP Physics C- E&M	Score of 4 or higher	Experimental Discovery (ED)
IB Biology HL, Chemistry HL, or Physics HL	Score of 6 or higher	Experimental Discovery (ED)

A Level Biology, Chemistry, or Physics	Score of B or higher	Experimental Discovery (ED)
AP Physics 1 & 2 (must have both), Chemistry, or Biology	Score of 4 or higher	Experimental Discovery (ED)

Science, Technology, and Society Courses

Code	Title	Credits
BIOL-SHU 30	Genetics	4
BIOL-SHU 261	Genomics and Bioinformatics	4
CCST-SHU 133	Water Energy Food Nexus	4
CCST-SHU 142	Environment Connections: Water, Waste, and Wellness	4
CENG-SHU 352	Emerging Technologies for Smart Cities	4
ECON-SHU 232	Blockchain, Cryptocurrency, and Money	4
GCHN-SHU 216	Psychology and Modernity in China	4
GCHN-SHU 243	China and the Environment	4
HIST-SHU 157	A Global History of Mathematics	4
HIST-SHU 205	History of Modern Medicine	4
HIST-SHU 225	The Global Space Age	4
HIST-SHU 239	New York: History of the City and its People	4
HIST-SHU 305	When Science Goes Wrong	4
HIST-SHU 310	The Birth of Psychology	4
HIST-SHU 330	Popular Culture and the Scientific Revolution	4
HUMN-SHU 110	What is Science and Technology Studies?	4
INTM-SHU 124	Emerging Technologies & Computational Arts	4
INTM-SHU 195	After Us: Post-human Media	4
INTM-SHU 294	History of Human Computer Interaction	4
MATH-SHU 5	Chance	4
NEUR-SHU 10	Free Will and the Brain	4
NEUR-SHU 130	Introduction to Linguistics: The Science of Human Language	4
NEUR-SHU 131	Neural Bases of Speech and Language	4
NEUR-SHU 132	Meaning	4
PHIL-SHU 90	Philosophy of Science	4
PHIL-SHU 91	Philosophy of Biology	4
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
PHIL-SHU 230	Philosophy of Physics	4
PSYC-SHU 329	Parenting and Culture	4
PSYC-SHU 344	Psychology of Human-Machine Communication and Relationships	4
PSYC-SHU 360	Evolutionary Psychology	4
SOCS-SHU 135	Environment and Society	4
SOCS-SHU 170	Introduction to Global Health	4
SOCS-SHU 199	Global Transportation	4
SOCS-SHU 204	Environmental System Science	4
SOCS-SHU 208	Cities at Crossroads: Environmental Challenges and Opportunities in Cities	4
SOCS-SHU 224	Climate Change and Society	4
SOCS-SHU 244	Anthropology of Mental Illness	4
SOCS-SHU 289	From Soil to Society: Exploring Earth Systems and Human Factors	4
SOCS-SHU 306	Pestilence: Critical Perspectives in Global Health	4
SOCS-SHU 328	Sexuality in the Digital Age	4

SOCS-SHU 332	Global Mental Health	4
SOCS-SHU 333	Global Environmental Politics	4
SOCS-SHU 334	Legal Psychology	4

¹ Biology, Chemistry, Physics, Neural Science, Computer Systems Engineering, Electrical Systems, Engineering, Math, or Honors Math.

Algorithmic Thinking

In Algorithmic Thinking (AT) courses, students acquire an understanding of the nature of computation, by studying the formal or mathematical properties of computation, by applying the concrete forms computation has taken, either historically or in the present, or by learning how to program. Students also will learn to critically engage with computation, by studying at least one context in which computation is embedded, whether historical, social, political, philosophical, mathematical or creative.

AT courses cover a wide range of disciplinary and interdisciplinary approaches; the AT course may be taken at any point in a student’s undergraduate experience.

The relevant exam scores which may be used to fulfill the Core Curriculum Algorithmic Thinking requirement are listed below. No corresponding credit is awarded.

Algorithmic Thinking Courses & Relevant Exams

Code	Title	Credits
BUSF-SHU 210	Business Analytics	4
CSCI-SHU 11	Introduction to Computer Programming	4
CSCI-SHU 101	Introduction to Computer and Data Science	4
ECON-SHU 301	Econometrics	4
INTM-SHU 101	Interaction Lab	4
INTM-SHU 103	Creative Coding Lab	4
INTM-SHU 204	Critical Data and Visualization	4
MATH-SHU 252	Numerical Analysis	4
PHIL-SHU 70	Logic	4
SOCS-SHU 190	Introduction to the Computational Social Science Methods	4

AP Examination	Score	Core Requirement Satisfied
AP Computer Science	Score of 4 or higher	Algorithmic Thinking
IB HL (Higher Level) Computer Science	Score of 6 or higher	Algorithmic Thinking
NYU Shanghai Placement into Introduction to Computer Science		Algorithmic Thinking

Core Curriculum Program Learning Outcomes

Critical Thinking

The ability to analyze, synthesize, and evaluate complex problems and arguments objectively using a wide range of methodologies.

Communication

The ability to communicate effectively in a range of written and spoken genres, using a variety of media, across a variety of disciplines.

Information Literacy

Possession of information literacy skills needed to access, evaluate, and utilize information effectively and ethically.

Algorithmic Thinking

Ability to understand and apply the underlying principles of computer programming, including input, output, variables, repetitive loops, and decision structures.

Scientific Literacy

The ability to apply scientific methods of inquiry, such as deductive and inductive methods to define problems, formulate testable hypotheses derived logically from alternative explanations, and design tests to evaluate these hypotheses.

Quantitative Literacy

The ability to recognize and interpret mathematical models, to use multiple mathematical methods to solve problems, and to understand how mathematical models are created to explain or predict phenomena.

Self-Directed Learning

Possession of independent learning skills that will enable the student to begin assignments and projects, to see them through until completion, and to submit high-quality work reflective of careful preparation and review.

Global Perspective

A global perspective that reflects an understanding of and ability to engage with various social, ethical, and personal values in a cross-cultural environment.

Exam Scores At-A-Glance

The following exam scores may be used to fulfill Core Curriculum requirements. No corresponding credit is awarded and test scores cannot be used to fulfill a prerequisite for an upper-level course in that area.

Core curriculum requirement can be fulfilled by these exams (though no credit is given)

AP Examination	Score	Core Requirement Satisfied
AP Calculus AB or BC	Score of 4 or higher	Mathematics
IB Mathematics HL	Score of 6 or higher	Mathematics
A Level Mathematics	Score of B or higher	Mathematics
NYU Shanghai Placement into Calculus		Mathematics
AP Psychology	Score of 4 or higher fulfills core; score of 5 fulfills core and course equivalency for PSYCH-SHU 101	Experimental Discovery (ED)

IB Psychology HL (Higher Level)	Score of 6 or higher fulfills core; score of 7 fulfills core and course equivalency for PSYCH-SHU 101	Experimental Discovery (ED)
A Level Psychology	Score of B or higher fulfills core; score of A fulfills core and course equivalency for PSYCH-SHU 101	Experimental Discovery (ED)
AP Physics C- Mech OR AP Physics C- E&M	Score of 4 or higher	Experimental Discovery (ED)
AP Physics 1 & 2 (must have both) Chemistry, or Biology	Score of 4 or higher	Experimental Discovery (ED)
IB Biology HL, Chemistry HL, or Physics HL	Score of 6 or higher	Experimental Discovery (ED)
A Level Biology, Chemistry, or Physics	Score of B or higher	Experimental Discovery (ED)
AP Computer Science	Score of 4 or higher	Algorithmic Thinking (AT)
IB Computer Science HL	Score of 6 or higher	Algorithmic Thinking (AT)
NYU Shanghai Placement into Introduction to Computer Science		Algorithmic Thinking (AT)

only full-time fall and spring enrollment (full time enrollment is 12 credits or more per semester); course overloads incur additional tuition and book fees. Students that take summer session or J-term courses will incur additional direct and indirect expenses.

Direct costs—such as tuition, books, housing, and student health insurance—are costs that will be charged by the university. In July the NYU Office of the Bursar will send you notification of your fall semester's bill and in December the spring semester's bill, which will include these direct charges. If you utilize financial aid you will see the anticipated aid for the semester deducted from the charges mentioned on your bursar bill each semester that you are enrolled. You will be responsible for any remaining balance due by the semester's bill due date. For your most current billing information you should log on to your bursar e-Suite portal (<https://www.nyu.edu/students/student-information-and-resources/bills-payments-and-refunds/when-and-how-to-pay/accessing-your-your-students-bill.html>).

Indirect costs—such as estimated travel, food, supplies, and personal expenses—are costs that you may incur during the academic year, which will vary for each student. These indirect costs are **not** charged through NYU Shanghai but can be used as estimates for your planning purposes.

Aid Renewal - Learn more about how your NYUSH aid will be renewed as a Returning Student, here (<https://shanghai.nyu.edu/undergraduate-admissions/cost-and-financial-aid/returning-students/>).

For more information about bills, payments, and refunds please contact:

Office of the Bursar – NYU Shanghai (<https://shanghai.nyu.edu/page/bills-payments-and-refunds/>)

Room E309
567 Yangsi W Rd, Pudong New Area, Shanghai

Email: shanghai.studentaccounts@nyu.edu
Phone: +86 21 20596666

Cost of Attendance

2025-2026 Estimated Cost of Attendance

Fee	Cost
Direct Costs: Costs that you will be charged by the University	
Tuition	\$65,622
Books and Supplies	\$1,330
Housing	\$5,606
Student Health Insurance*	\$3,178
Estimated Direct Costs	\$75,736
Indirect Costs: Other educational costs incurred	
Estimated Food	\$5,110
Estimated Personal (Misc.)	\$1,104
Estimated Travel	\$6,266
Estimated Indirect Costs	\$12,480
Estimated Total Cost of Attendance	\$88,216

*Health insurance charges are subject to change depending on negotiations that will take place in late July.

The preliminary cost of attendance represents the estimated annual cost of education for full-time undergraduate students at NYU Shanghai in US dollars for the academic year presented above. It includes tuition, food and housing (which may vary based on a student's housing selection), student health insurance, personal expenses, books, and estimated travel costs. Annual adjustments to the costs and fees at NYU Shanghai may be necessary and expected. The yearly tuition and residence costs include

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Arabic Language (ARBC-SHU)

ARBC-SHU 101 Elementary Arabic I (4 Credits)

Typically offered occasionally

This course is designed for learners with no prior knowledge of Arabic. Students who have studied Arabic before or who have prior knowledge of Arabic are required to take a placement test. This is a full semester (or equivalent session) course during which students first learn the Arabic alphabet, then move on to work on the sentence and paragraph levels. It is an interactive course designed to build the student's abilities in listening, speaking, reading, and writing. At the end of the semester students should be able to carry on a short conversation; ask and answer questions; introduce themselves and others; provide simple biographical information; interact in simple daily life situations; ask for assistance; express likes and dislikes; read short texts; and gain a basic understanding of Arab culture. Types of tasks and assignments required for this course include daily homework assignments, periodic quizzes, brief presentations, short essay writing, and a final exam. Prerequisites: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ARBC-SHU 102 Elementary Arabic II (4 Credits)

Typically offered every year

This Elementary Arabic II course is designed to provide students who have already studied one semester of Arabic (or the equivalent thereof) with continued progress in the Arabic language through the practice of the four skills. It is an interactive course designed to build the student's abilities in listening, speaking, reading, and writing. This is a continuation of ARBC-SHU 101. To progress to the intermediate level, a student must complete both ARBC-SHU 101 and ARBC-SHU 102. Prerequisites: ARBC-SHU 101 Elementary Arabic I or the equivalent. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Art (ART-SHU)

ART-SHU 101 What is Art? (4 Credits)

Typically offered Fall

This introductory class explores the nature and value of the arts through an examination of aesthetic theory, select art movements and their context and through hands-on projects that acquaint students, in an embodied fashion, with how artists make meaning. It considers art's powers and limits, its benefits and potential dangers, the nature of artistic mediums and unpacks the mechanisms through which art communicates a particular vision. At the end of this course, students will be able to define and utilize key terms and concepts particular to the visual arts, and able to create compelling and researched arguments that synthesize theoretical, historical, iconographical and technical frameworks. They will also be able to perform in-depth analysis of artworks and visual media and create and defend their own artworks. Prerequisite: None. Fulfillment: Humanities Major Requirement Foundations/Introductory Courses (18-19 Critical Concepts Core Course/Survey Courses).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

ART-SHU 103 Foundations in Visual Arts (4 Credits)*Typically offered Fall*

Foundations in Visual Arts introduces students to the basic elements of art making and visual art terminology through hands-on experimentation with materials supplemented by tutorials, workshops, and lectures. Students will work on various projects that explore line, shape, form, space, light/value, color, texture, across 2D and 3D forms. In the process, they will also examine artistic media and genres through a conceptual and critical lens. Foundations in Visual Arts gives students an overview of how basic principles in concert with different media, subjects, ideas and techniques, create meaning in the visual arts. After completing this course students will be able to: demonstrate basic proficiency in drawing and painting using graphite, pen, and acrylic, gain a basic knowledge of color, and be able to plan and execute simple 3D constructions using casting methods, cardboard, wire and paper-mache. Prerequisite: None. Anti-requisite: ART-SHU 310/9210 Introduction to Studio Art Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 105 Actions and Gestures - Embodied Media as Performance Art (2 Credits)**

What is performance? How do we make embodied art in our technologically mediated world? These questions will guide us as we create performance art in conversation with archival theory, film, new media, and scientific research. Students will encounter the works of Yoko Ono, Marina Abramovic, Joseph Beuys, Laurie Anderson, Adrian Piper, Robert Wilson, Tehching Hsieh, Chris Burden and other pioneers of the genre of performance art. This course will delve deeply into investigating the cultural and technological contexts that inform contemporary performative practices. Students will create their own works using bodies in spaces, archival collection methods, image-capture technologies, and post-production tools to explore the art of performance in the phygital realm. At the end of semester students will organize a performance festival to share their final projects with the campus community. No performance or technological experience necessary. Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 180 East Asian Art in the World (4 Credits)***Typically offered Fall*

This course surveys art and architecture of East Asia with a particular focus on the early modern and modern periods (1500s to the present) from global perspectives. We will study how artistic traditions transmit and develop in distinctive yet interconnected societies in and beyond East Asia, as well as how those traditions interact with specific political, religious, social, and cultural contexts in which they grow. Issues investigated include the spread and metamorphosis of Buddhist art in China, the rise of "national" painting in twentieth-century Japan and China, chinoiserie and japonisme, and the idea of traditional and modern architecture in public spaces in colonial Korea. Prerequisite: None. Fulfillment: Humanities Other Introductory course; GCS China and the World.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

ART-SHU 211 Foundations in Painting: Painting in Practice and Theory (4 Credits)*Typically offered Spring*

Painting is a remarkable medium whose dynamic evolution across cultures and through millennia continues up until the present. In this class, students will get an introduction to the basic technical, formal, and conceptual principles of painting while exploring how contemporary practitioners are utilizing the medium to address contemporary concerns. Using watercolor, gouache, and acrylic, students will learn about color theory, composition, texture, form, and surface. Through select readings, students will also examine the theoretical questions and historical precedents that have informed painting's development, analyze the work of historical and contemporary painters and be able to see how their own practice connects to larger art historical and societal concerns. In addition to acquiring basic technical skills and conceptual know-how, students will also gain competency in art critiques and writing artist statements. Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 222 Site and Situation: Public Art (4 Credits)***Typically offered Spring*

Site and Situation: Public Art is an advanced course. Students will consider how economic, political and global entities use social space as means of perpetuating social constructs, collective identity, and human behavior? Public art is one aspect of how social spaces are defined and curated. However, what is "public art"? How is it interpreted and practiced? How can artists make their own moves to interpret and re-situate site? Students will use Shanghai as a case study to investigate how materials both inform and are informed by location and geography. Students will develop one semester-long individual project – a portfolio which includes a research paper, a scale model, an artist statement, a poster, and a presentation. Prerequisites: None. Anti-Requisite: ART-SHU 223 Site and Situation: Social Space and Public Art. Fulfillment: Humanities Interdisciplinary/other Advanced course; IMA elective; IMB major IMA/B elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Antirequisites: Students who have completed ART-SHU 223 Site and Situation: Social Space and Public Art are not eligible.

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 223 Site and Situation: Social Space and Public Art (2 Credits)*Typically offered January term of odd numbered years*

What is the relationship between "Site" and "Situation"? How do economic, political and global entities use social space as means of perpetuating social constructs, collective identity, and human behaviors? Public art is one aspect of how social spaces are defined and curated. However, what is "public art"? How is it practiced? How can artists make their own moves to interpret and re-situate site? Students will use Shanghai as a case study to investigate how materials both inform and are informed by location, communities, and geography. They will conduct field work and learn basic architectural drafting and maquette-building skills through workshops and technical art assignments. They will develop one semester-long individual project made up of a scale model of a site accompanied by a portfolio of drawings, images and writing. Anti-Requisite: ART-SHU 222 Site and Situation: Social Space and Public Art. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Antirequisites:** Students who have completed ART-SHU 222 Site and Situation: Social Space and Public Art are not eligible.**ART-SHU 225A Contemporary Dance (2 Credits)***Typically offered occasionally*

This two-point course introduces the fundamental concepts of contemporary dance. Through movement exploration, imitation, and memorization based on Graham technique, students gain an appreciation for the expressive and dynamic capacity of the body. In addition to body work, students learn and perform contemporary dances. It is highly suggested that one has previous dance experience before enrolling. Prerequisite: None. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 225B Contemporary Dance (4 Credits)***Typically offered occasionally*

For none major. This course is an introduction to the fundamental and intermediary concepts of dance through learning a diversity of movement styles. Students will gain an appreciation for the expressive and dynamic capacity of the body, recognizing shared, unifying attributes as well as those that are unique and intrinsic to each style. The thorough warm up places an emphasis on breath, proper placement, and building stamina for general health. Short dances and sequences from Jazz, Hip Hop, Contemporary, and Modern Dance will be learned to sharpen kinesthetic memory, foster joy in movement, and express the timelessness of all dance. Students enrolling for 4 credits will learn the historical and cultural background behind the dances and 2 credits fulfill just the dance requirement. All levels are welcome. No previous experience is required. Prerequisite: None. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**ART-SHU 227 Theory and Practice of Acting (2 Credits)**

This course will be taught remotely using a dynamic combination of synchronous and asynchronous tools, while introducing students to the fundamental skills of acting. Using the work of some of the world's foremost theorists and practitioners like Constantin Stanislavski, Anton Chekhov, William Shakespeare, Cicely Berry, and Ann Bogart, among others, we will investigate the history and evolution of style, genre, and technique as applied to acting for both stage and film. In doing so students will be exposed to the innovative new technologies currently being used by leading professionals in the field of acting. During this course, students will experience learning how to read and analyze a script, techniques for memorization and relaxation, in-person physical workshops led by guest artists, and in-depth exposure to the mechanics of acting (objective, intention) to create unique and vibrant characters within scenes and monologues. Assignments and exercises will be designed to embolden students' imaginations while building confidence in front of an audience. Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ART-SHU 230 Ballet (2 Credits)*Typically offered occasionally*

No prior ballet experience is required. This course serves as an introduction to the fundamental concepts of Ballet. The class includes warm-up, stretching, barre, and center combinations, through which students can improve their stamina, balance, coordination, and increase their vocabularies in ballet. Students will also learn and perform one ballet repertoire to develop their overall comprehension of ballet forms. Prerequisites: None Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 231 Introduction to Dance & Movement (2 Credits)**

This two-point introductory class explores and builds foundational skills for different genres of dance. Through movement sequences, short dances and creative activities, students build up muscle strength, increase coordination, flexibility, balance, and stamina as well as improve their kinesthetic memory, musicality, and knowledge of their own bodies. In addition, imagery and visualization prompts will be used to foster creative experimentation in movement. Prerequisite: None. Fulfillment: General Elective. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 239.2 Choreography & Performance (2 Credits)***Typically offered occasionally*

No prerequisite. The purpose of this studio course is to fully participate in the creative process through movement exploration, setting choreography and engaging in live performance. With a focus on space, quality, aesthetics, alignment, and musicality as well as practicing learning strategies within a duet/group context, students apply their understanding and utilize their training in personal, artistic expression. Students who have had one or more dance classes are encouraged to enroll. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

ART-SHU 239.4 Choreography & Performance (4 Credits)*Typically offered occasionally*

The purpose of this studio and theoretical course is to participate in the creative process through movement exploration, setting choreography and engaging in live performance. In addition, students research, analyze and discuss choreographers and their works. Students who have had one or more dance classes are encouraged to enroll. Prerequisite: None. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 241 Han-Tang Dances (2 Credits)***Typically offered occasionally*

This performing arts course introduces the body rhythms and repertoire of Chinese classical dances (#####). Students will explore the dance methods and practices derived from Chinese martial arts, opera, and historical records (texts, sculpture, and painting). The course culminates in an end-of-semester concert, where students will perform dances from Han-Tang (Han and Tang Dynasty), Dunhuang, and Chinese martial art-dance fusion styles. Prerequisite: None. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**ART-SHU 242 Dances of Southern China (2 Credits)***Typically offered Spring*

This course focuses, through dance, on the embodiment of the minority folk cultures of Southern China. Each semester, students will focus on two folk dances from Tibet, Yunnan, or Guizhou of China. These dances were created by Tibetan, Wa, Dai, and Miao people. Students will explore the forms of these dances as well as the culture, religion, and history influencing the creation of these dance forms. Students with previous dance experience are encouraged to enroll. This course counts toward the Cross-School Dance Minor, hosted by Tisch School of the Arts at NYU. Prerequisite: None. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 243 Dances of Northern China (2 Credits)***Typically offered Fall*

This course focuses, through dance, on the embodiment of the minority folk cultures of Northern China. Each semester, students will focus on two folk dances from Yanbian, Xinjiang, or Inner Mongolia. These dances were created by Korean, Uyghur, and Mongolian people. Students will explore the forms of these dances as well as the culture, religion, history influencing the creation of these dance forms. Students with previous dance experience are encouraged to enroll. Prerequisite: None. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 244 Intermediate Ballet (2 Credits)***Typically offered Spring*

This two-point intermediate course is designed to provide an opportunity for students to continue their pursuit of ballet techniques with an emphasis on developing their performing skills in ballet. This course covers a broad range of ballet work inclusive of barre work, ports de bras, adage, pirouettes, larger jumps, and building stamina exercises. The class content is structured in three parts: barre exercises, center work, and performance. Prior training in ballet and instructor's consent to enroll are required. Prerequisite: ART-SHU 230 Ballet or upon instructor's approval for students who received prior training in ballet outside of NYUSH. Contact the instructor for permission. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**ART-SHU 246 Dance on Camera (4 Credits)***Typically offered Spring*

This course will explore the choreographic and cinematic aspects of producing a dance for the camera. A dance for the camera is a synthesis between the various techniques of film/video and the act of choreography. This course will encourage you to expand the skills you developed in previous dance or choreography classes, and to focus on the difficult yet rewarding process of creative collaboration. Be prepared to focus on this collaborative process and concentrate much of your energy on finding ways to improve your communication with and contributions to your team. Prerequisite: A prerequisite of at least 2 dance classes prior to taking this class is required and a basic knowledge of Adobe Premiere. If you think you are qualified, please contact the instructor for permission. Fulfillment: This course counts toward the Cross-School Dance Minor hosted by Tisch School of the Arts at NYU. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

ART-SHU 250 Visual Culture and Social Art Practice: Collaborations and Community Interactions (4 Credits)*Typically offered Spring*

Visual Culture and Social Art Practice: Collaborations and Community Interactions is an advanced course which combines relational, performative, and collaborative community-based engagements with theoretical and conceptual investigations. Students interact artistically and directly with local communities as well as consider themselves in relation to those communities. Through the lens of social and relational art practices, students will develop and realize projects specific to various communities in Shanghai such as the Yangling Dementia Center, Qishehua Primary School, Lantian Middle School for Migrant Children, Power Station of Art Museum, and Zhongshan High School. This is a Dean's Service Scholar course in collaboration with the Office for Community Engaged Learning (link to CEL Office site). Enrollment in this course requires the completion of an application, an orientation to service learning, and participation in an event to present and celebrate your final projects. Prerequisites: None Fulfillment: IMA elective; IMB major IMA/B elective; Social Science focus course Anthropology track 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology

ART-SHU 255 Printmaking in an Expanded Field (4 Credits)*Typically offered Fall of even numbered years*

This Praxis course is an exploration of contemporary and traditional artistic printmaking practices, with an emphasis on expanding notions of conventional printmaking techniques and forms. Students will be introduced to various printmaking techniques, and experiment with traditional and non-traditional forms, in conjunction with their histories and consider what constitutes a hand-made print in an artistic framework. Students will gain an understanding of printmaking - its history based in China, development across the globe and inventive contemporary practices which include sculptural forms. They will learn techniques, modes, forms, and applications of printmaking – with an emphasis on relief prints (stamps and wood cuts) – in a conceptual framework of contemporary printmaking practices and global visual culture. Note: attendance in the first class meeting is mandatory, otherwise you will be dropped from the course. Prerequisite: None. Fulfillment: This course satisfies IMA elective; IMB major IMA/B elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 274 Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form (4 Credits)*Typically offered Fall of odd numbered years*

Woodblock printmaking in China occupies a unique and profound place in the history of Chinese visual culture – both reflective of and linked to various political, social, and cultural movements. In this transdisciplinary course, we will explore making our own woodblock prints while investigating the historical conditions that led to the emergence of woodcut as a modern and socially engaged graphic art from the early 20th century to our contemporary time. Students will learn foundational techniques, forms, and applications of relief prints (stamps and woodblock prints) as well as contemporary approaches (using digital tools and equipment) in order to gain a deeper understanding of the art form. This hands-on approach and artistic experimentation will be accompanied by research into woodblock printmaking history, focusing on its revaluation and development in Shanghai, between 1927 and 1932 – directly supported by the writer Lu Xun ## – through applications during the Cultural Revolution, 1968-76, to the second wave of renewal starting in the 1980s. Prerequisite: None Fulfillment: IMA elective; IMB major IMA/B elective; GCS Major elective Chinese Media, Arts, and Literature elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 275 Mark Making: From Basic Drawing Skills to Contemporary Approaches to Drawing (4 Credits)*Typically offered Fall*

Drawing is one of the earliest ways humans attempted to understand the world, and it remains a remarkable tool for perceiving, recording, negotiating, and inventing our relationship with our surroundings. Drawing is not a privilege of the talented but a teachable skill acquired through the continued practice of specific techniques. In this class students will learn basic drawing methods such as contour, gesture, negative space, value and perspective, and will study why and how these techniques aid draughts persons in creating a three-dimensional illusion on a surface. Students will also examine contemporary drawing concerns and tackle two longer drawing projects centered around narrative and different materials and drawing methods. At the end of this course, students will have acquired basic drawing skills, learned some of the ways artists have practiced and conceptualized drawing and started to build their own personal visual vocabulary and approaches to the medium. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

ART-SHU 301 Photography I: Framing Reality (4 Credits)*Typically offered Fall*

We are constantly engaged with photographic images in our contemporary lives, both from a production and a consumption perspective. During this course, we will unpack the various layers of affect hidden within the act of image making with lens based media. In this project-based course students can expect to gain an introduction to photography as an artistic medium through hands-on technical and conceptual experimentation. Students will learn to shoot, edit, and print digital photographs using professional photographic equipment and softwares. Additionally, the course will help students develop critical perspectives by engaging theoretical texts that inform the study of photography as a contemporary artform. During group critiques, students will also learn how to articulate and iterate on conceptual ideas based on peer feedback – by the end of the course, students will have developed a small body of work grounded in critical thought and historical knowledge of contemporary photography. Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 302 Photography II (4 Credits)***Typically offered Spring term of even numbered years*

Photography II is a praxis course that provides students with a critical examination of photography as a medium-specific discipline. Through the investigation of the intersection between photography and sculpture, the course will explore the materiality, physicality, and spatiality of the photographic object. In considering how one medium has become implicated in the understanding of the other, students will analyze photographs taken by sculptors such as Constantin Brancusi, Bruce Nauman, Rachel Harrison, among other. Building on the technical skills from Beginning Photography, students will experiment with a variety of techniques in lighting, post-production using Photoshop, and in making the photographic print. Students will continue to shoot, edit, and print photographs using professional digital photographic equipment and software, and install / exhibit their work in the student art gallery. Through in class lectures, course readings, and studio work, students will become familiar with the work of artists and photographers exhibiting in modern and contemporary art museum and galleries. These works are examined through relevant histories and theories of photography written by thinkers such as Walter Benjamin, Susan Sontag, Roland Barthes, to provide the discursive framework for students to articulate their own photographic investigations, as well as critique the work of their peers. Students are expected to do 6-8 hours of course/studio work per week outside of class. Prerequisite: Photography I or Moving Images I Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 306 Moving Images I (4 Credits)***Typically offered Spring*

Moving Images I is a praxis course that provides students with an introduction to time-based practices in the discipline of Visual Art and Film. The focus of the class is on the exploration of experimental film and video art in the context of museums, galleries, and art fairs, as well as independent film houses and film festivals. Students will experiment with essayist, abstract, and narrative and non-narrative moving image practices in both single-channel and multi-channel formats, and learn to shoot and edit moving image works using professional equipment and software. In the studio, students are required to critique the work of their peers, their own work, and work sourced from current contemporary art exhibitions and film screenings. Outside the studio, students will examine major historical movements in contemporary moving image practices. Works of practicing artists are examined to provide the framework and vocabulary to articulate the students' own moving image investigations. Students are expected to do about 6-8 hours of course work per week outside of class. Note that attendance in the first class meeting is mandatory, otherwise you will be dropped from the course. Prerequisite: None. Fulfillment: This course satisfies IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 307 Moving Images II (4 Credits)*Typically offered Spring term of odd numbered years*

Moving Images II is a praxis course that provides students with a critical examination of moving image practices as a medium-specific discipline at the intersection of Visual Art and Experimental Film/Avant-Garde Cinema. Using Gilles Deleuze's Cinema 1 The Movement Image as a theoretical foundation, the course examines the mobile camera and montage as two essential kinetic elements of time-based media. The class will survey a variety of moving image works by filmmakers and artists from France, Germany, Russia, Taiwan, Canada, and the US, and read texts by film theorists such as Sergei Eisenstein, Christian Metz, and Trinh, T. Minh-Ha to contextualize Deleuze's film theory in a broader context. Building on Beginning Film/Video, and through in-class lectures, course readings, and studio work, students will further their understanding of narrative and non-narrative moving image practices in single-channel formats. Students will continue to shoot and edit film/video works using professional equipment and software, and are required to critique the work of their peers and their own work. Different time-based works are examined in class to provide the framework and vocabulary for students to articulate their own film/video investigations. . Prerequisite: ART-SHU 306 (Moving Images or Moving Images I); ART-SHU 301 / ART-SHU 9301 (Introduction to Photography I or Photography I) Fulfillment: IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 310 Introduction to Studio Art (2 Credits)*Typically offered Fall and Spring*

This course will be an introduction to studio art for students, to traverse both cultural and temporal barriers of visual arts. Students will examine the content of artwork, and build various skills to translate ideas into reality. Class time will be devoted to individual projects and critiques, lectures, and group discussions. This course is open to all students with or without an art background. Note that attendance in the first class meeting is mandatory, otherwise you will be dropped from the course.

Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ART-SHU 320 Experiences in Time: The Art of Time-based Media (4 Credits)*Typically offered Spring*

This is a project-based course with a focus on developing conceptual ideas and experimenting with various time-based media to give form to those ideas. It will be a brief survey of various approaches to working in time, from sculptural objects to video and sound, performance art, and participatory social art practices. Throughout the course, students will explore time as both a material and concept, developing ways to create temporal installations and live experiences. It will involve both individual and collaborative projects, encouraging students to take experimental approaches as they explore the various ways artists work in time. While prior experience with media-based arts such as film, video, performance, or sound is beneficial, students with a strong interest in exploring time-based media and a willingness to experiment are encouraged to enroll. Prerequisite: Any ARTS-UG, VISAR-UH, ART-UE, IMNY-UT, INTM-SHU, OART-UT OR ART-SHU Class Fulfillment: IMA Major elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 340 Composition (4 Credits)*Typically offered Fall and Spring*

The studio class is designed as lecture and laboratory, for investigating and expanding our own creativity through the construction of full dance pieces. We will learn how developing a creative practice can not only facilitate dance making and choreography in quick bouts, but also how to turn those tiny gems into a more vast and rich repertoire for audience viewing, either in the public or within a school environment. We will also focus on developing our skills as critical thinkers and the course will emphasize discussion and how we talk about performance as well as give feedback, in order to refine these skills. There will be assigned readings, and we will watch videos of both past and contemporary works to familiarize ourselves with what is happening now (and what has been done) in the field, and to see how this can inform and inspire our own work. Performance is a mandatory component of this class. Any student who has taken 1-2 dance classes previously or Choreography & Performance, is encouraged to take this advanced dance course. Prerequisite: ART-SHU 239.2 or 239.4 Choreography & Performance Fulfillment: Counts towards the Global Dance Minor Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ART-SHU 375 The Graphic Novel (4 Credits)*Typically offered Spring term of even numbered years*

Graphic novels have the ability to tell a variety of stories across a wide spectrum of genres and speak to diverse audiences with impact and immediacy. In this course, students will gain the vocabulary and fundamental elements to create an effective graphic narrative through skill-based assignments in drawing; story-boarding; coloring; composition; world-building; and plot and character development. The course has one major assignment: a graphic short story of approximately 16 pages. Students may use digital image making, photography, drawing, painting, collage, and/or printmaking. This course counts as an IMA elective and a Creative Writing elective. This is an Advanced-level course: Students should have creative writing, photography, drawing, painting, printmaking, and/or animation experience. Prerequisite: None. Fulfillment: IMA/IMB elective; Creative Writing elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

ART-SHU 845 Comedy (2 Credits)

In this course we will examine global histories and applications of comedy in performance and media as students form a company of actors, writers, and directors to produce dynamic new work. Students will explore comparative approaches to the technicalities of writing and performing comedic scenes and characters as we seek to understand the science of humor and the purpose of comedy in our own communities. Each week we will seek inspiration from a wide range of examples offered from the history of comedy, from the ancients to modern sketch comedy. We'll finish the semester with a presentation of the original work we've created in the form of videos and live performance. Prerequisites: None Fulfillment: General Elective Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ART-SHU 1010 Making Theatre (2 Credits)*Typically offered occasionally*

In this course, we will explore the essential elements of collaboration and theater making, seeking to understand how the creation process works and how it can be applied across many disciplines. We will investigate groundbreaking theories from the history of performance, mine them for tools useful to our process, and then put them into action as a company of collaborators. As we move through foundational exercises, scene work, and devising methods, students will take on rotating roles of actor, director, writer, designer, and more. Working together, we will hone our craft and establish effective systems for creating and rehearsing new work. Our goal: to further develop our own artistic voices and discover how they can impact the world around us as we make theater. Pre-requisites: None. Fulfillment: General Elective. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ART-SHU 1911 Projects in Studio Art (2 Credits)*Typically offered Spring*

"Projects in Studio Art" is designed for studio artists who want to create a succinct body of artwork while studying in Shanghai. Students will create contemporary artworks, while using a unique integrated style of work. Class will examine the content of artwork focusing on society and culture, including ideas in contemporary and traditional art, both Chinese and international, and build various skills to translate ideas into reality. Class time will be devoted to studio work, individual and group critiques, lectures, class discussions, and visits to local artists, galleries and museums. By the close of the semester, each student will have a complete body of artwork, including their individual projects, and participate in an exhibition. Note that this course will run all semester and the attendance in the first class meeting is mandatory, otherwise you will be dropped from the course. Prerequisite: ART-SHU 103 Foundations in Visual Arts, OR ART-SHU 255 Printmaking in an Expanded Field, OR ART-SHU 275 Mark Making, OR ART-SHU 306 Moving Images 1, OR ART-SHU 211 Foundations in Painting, OR ART-SHU 301 Photography 1 OR ART-SHU 375 The Graphic Novel, OR ART-SHU 320 Experiences in Time, OR ART-SHU 274 Chinese Woodblock Printmaking, OR ART-SHU 222 Site and Situation: Social Space and Public Art Fulfillment: General Elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 9210 Introduction to Studio Art (2 Credits)***Typically offered Fall and Spring*

This course will be an introduction to studio art for students who want to traverse both cultural and temporal barriers of visual arts. Students will examine the content of artwork and build various skills to translate ideas into reality. Class time will be devoted to individual projects and critiques, lectures, and group discussions. This course is open to all students with or without an art background. Note that attendance in the first class meeting is mandatory, otherwise you will be dropped from the course. This course is for study-away students. Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ART-SHU 9301 Photography I (4 Credits)***Typically offered Fall and Spring*

Photography I is a praxis course that provides students with an introduction to photography as an artistic medium in the field of Contemporary Art. The course will examine documentary, pictorial, and conceptual photographic works that are exhibited in museums and galleries starting from the post-war era and continuing to the present day. Students will learn to shoot, edit, and print digital photographs using professional photographic equipment and software. In the studio, students are required to critique the work of their peers, their own work, and work sourced from current contemporary art exhibitions. Outside the studio, students will examine major historical movements in photography. Works by artists are examined to provide the framework and vocabulary to articulate the students' own photographic investigations. Students are expected to do about 6-8 hours of course work per week outside of class. Note that attendance in the first class meeting is mandatory, otherwise you will be dropped from the course. Prereq: None Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Biology (BIOL-SHU)

BIOL-SHU 5 Nutrition, Fitness and Health (4 Credits)*Typically offered occasionally*

Only in times of illness we usually realize that our most valuable possession is our health. To be in good health doesn't mean simply to be disease free. This course will focus on the essential role and interaction of exercise and diet in achieving total fitness and wellness. The students will build a strong understanding of the foundations of exercise physiology and nutrition. Students will learn how to evaluate their own wellness level with respect to various wellness components, such as fitness level and nutritional status and will build their own personalized program to maintain their health. Prerequisite: None. Fulfillment: Core Curriculum Science Experimental Discovery in the Natural World Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

BIOL-SHU 21 Foundations of Biology I (3 Credits)*Typically offered Spring*

Prereq or Co-req for BIOL-SHU 21 is MATH-SHU 121 or MATH-SHU 201 Fulfillment: CORE ED; Biology, NS, Physics Foundational course; Math/ Honors Math Science Lecture; DS concentration in Genomics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Genomics
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

BIOL-SHU 22 Foundations of Biology II (3 Credits)*Typically offered Fall*

Prerequisites: BIOL-SHU 21 Foundations of Biology I and (MATH-SHU 131 Calculus or MATH-SHU 123 Multivariable Calculus or MATH-SHU 201 Honors Calculus). Fulfillment: Biology Major Foundational Courses; Mathematics Major Science Lecture sections; Honors Mathematics Major Science Lecture sections; Neural Science Major Foundational Courses; Data Science Major Courses for Concentration in Genomics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Foundation
- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in Genomics
- SB Crse Attr. NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Neural Science Foundational Course

BIOL-SHU 30 Genetics (4 Credits)*Typically offered Fall*

Why do offspring often exhibit physical features of their parents? Why do combinations of certain features in offspring translate into specific characteristics that either enhance or diminish the organism's fitness? Answers to questions such as these fall partly within the discipline of genetics, which is the study of heredity. Principles from the Foundations of Science curriculum and Organismal Biology provide a framework for learning about classical genetics, chromosome structure and mutation, gene function and regulation, and aspects of molecular and developmental genetics. Recent studies in human genetics and their applications, particularly to health-related issues, are also investigated. Prerequisite: BIOL-SHU 22 Foundations of Biology II. Fulfillment: Core Curriculum Requirement Science, Technology and Society Courses; Biology Major Electives; Neural Science Major Approved upper-level Biology courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Elective
- SB Crse Attr. NYU Shanghai: Neural Science Approved upper-level Biology Course
- SB Crse Attr. NYU Shanghai: Science, Technology and Society

BIOL-SHU 31 Genetics Laboratory (4 Credits)*Typically offered Fall*

pre-req or co-req is BIOL-SH 30 Genetics or BIOL-UA 30 Genetics
Fulfillment: Biology Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Elective

BIOL-SHU 123 Foundations of Biology Lab (2 Credits)*Typically offered Spring*

The course will teach students the skills needed in molecular biology research such as the hand-on techniques of microscopy, transformation, gene expression, PCR, gel electrophoresis, SDS-PAGE, and chromatography. The students will first learn these basic biological techniques in short experiment sets and then apply them as part of a Genetically-Modified Food project. The lab course will also emphasize literature search, scientific writing, peer reviewing, lab notes taking, poster and power point presentations, data analysis, and best practices in lab safety. FoS 5&6 labs are regarded as an extension to what the course lectures teach rather than a direct linear relationship whereby a lecture is directly applied in the lab. The pre-labs that are given as lectures before the actual lab begins span a weekly 30-45 min and explain the principles behind the techniques that the students will apply that lab. Students are required to study the lab procedure in advance and be prepared for a quiz and discussion of the material. Learning Outcomes: This course aims at teaching students how to think like a true researcher as well as apply the key molecular biology techniques. During this course, students will be expected to: gain an understanding of the basics of molecular biology techniques and be able to apply these techniques in the lab; acquire the habits of a good scientist including accuracy, cleanliness, orderliness, safety, honesty, teamwork, curiosity, good time management, and self-reliance develop the ability to convey scientific information; this includes keeping good records with in a lab notebook, writing a satisfactory report, and oral communication; draw conclusions from observed facts and support these conclusions with peer-reviewed literature. pre-reqs: (MATH-SHU 131 Calculus or MATH-SHU 123 Multivariable Calculus or MATH-SHU 201 Honors Calculus) and BIOL-SHU 21 Foundations of Biology I. Fulfillment: Core Curriculum Requirement Experimental Discovery in the Natural World Courses; Biology Major Foundational Courses; Mathematics Major Science Lab sections; Honors Mathematics Major Science Lab sections; Neural Science Major Foundational Courses; Physics Major Foundational Courses; Data Science Major Courses for Concentration in Genomics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Foundation
- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in Genomics
- SB Crse Attr. NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr. NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr. NYU Shanghai: Physics Foundational Course

BIOL-SHU 200 Topics: (4 Credits)*Typically offered occasionally*

Pre-req is BIOL-SHU 22 Foundations of Biology II Fulfillment: Biology elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Elective

BIOL-SHU 250 Organismal Systems (4 Credits)*Typically offered Spring*

The array of organisms that populates the globe is astounding in its diversity and adaptability. This course uses fundamental concepts from the Foundations of Science curriculum to examine essential elements of animal physiology, including adaptations to environments such as deserts. This course develops an understanding of the relationship between structure and function of the organism; how structure develops through evolutionary and developmental processes; and how structure is related to the environment surrounding the organism. Prerequisite: BIOL-SHU 21. Fulfillment: Biology required course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Required

BIOL-SHU 261 Genomics and Bioinformatics (4 Credits)*Typically offered Fall*

Fueled by recent advances in technical approaches to data collection and analysis, the biological sciences have entered a new era in which vast amounts of genome-scale sequence and functional data are becoming available for a large number of species, including human. Many medical and biological studies are being carried out on an unprecedented scale. The surge of biological data changes genomics and biology into one of the major research topics in data science. Familiarity with the fields of genomics and bioinformatics, which impact society on all levels, is vital for the next generation of scientists. The course of Genomics and Bioinformatics introduces to students a broad range of subjects in this field through lectures and hands-on exercises that use fundamental principles of biochemistry, computer science, and mathematics. Students are also expected to understand G&B applications such as how genomic analysis is used to facilitate precision medicine research, and how to study biology questions from a systemic perspective. Prerequisite: co-req/pre-req (one of Stats course NEUR SHU 100 or MATH-SHU 235 or MATH-SHU 234 or BUSF-SHU 101) AND pre-req (CSCI-SHU 11 ICP or CSCI-SHU 101 ICDS) Fulfillment: Core Curriculum Requirement Science, Technology and Society Courses; Biology Major Biology Electives; Data Science Major Courses for Concentration in Genomics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Genomics
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

BIOL-SHU 263 Developmental Biology (4 Credits)*Typically offered Spring term of even numbered years*

Multicellular organisms undergo a series of complex temporal and spatial changes in gene expression following fertilization, which results in the highly organized, coordinated cell divisions needed for growth and development. This course introduces students to the principles and experimental strategies of developmental biology. It covers the cellular and molecular basis for patterning in the embryo; the determination of cell fate; cell differentiation; the genes controlling these events; how the genes are identified and studied; and the cellular proteins that effect shape, movement, and signaling among cells. Prerequisite BIOL-SHU 250 Organismal Systems, or Foundations of Biology II. Fulfillment: Biology elective; Neural Science Approved upper-level Biology course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Neural Science Approved upper-level Biology Course

BIOL-SHU 271 Cell biology: body's battle with cancer (4 Credits)*Typically offered Spring*

This course is designed to provide comprehensive understanding of how cancer breaks our body's defense for its survival. Cancer is a devastating disease in a modern society and a plethora of efforts has been made to find its cure. In this course, students will learn how difficult fighting against cancer is in a molecular level. Furthermore, using cancer as an example, students will also learn how metazoan develops multiple defense mechanisms and survives in the hostile environment. Pre-requisite: Foundations of Biology I (BIOL-SHU 21) Fulfillment: Biology elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective

BIOL-SHU 314 Advanced Cell Biology Lab (4 Credits)*Typically offered Spring*

The course takes an in depth look to understand the fundamental and advanced methods for growing and studying cells—the smallest units of life. This course introduces students to the fundamentals of cell biology and the experimental approaches used in research to examine the cell structure and function. Topics cover cell lines culture, the structure and function of the cells, metabolic pathways, cell signaling pathways, and gene function investigation in vitro in cells. The laboratory course will teach students the skills needed in advanced cellular biology research such as the hands-on techniques of cryopreservation, transfection, realtime PCR, immunofluorescence, RNA isolation, cDNA construction, gene expression and regulation. The lab course will also emphasize literature search, scientific writing, lab notes taking, data analysis, and best practices in lab safety. Prereq for BIOL-SHU 314 is BIO-SHU 21 Foundations of Biology I. Fulfillment: Biology elective; Neural Science Approved upper-level Biology course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Neural Science Approved upper-level Biology Course

BIOL-SHU 400 Independent Study - Biology Capstone (4 Credits)*Typically offered Fall*

Students must conduct two semesters of research (8 credits) with a faculty member in NYU Shanghai Biology or another faculty member approved by the Biology Area Director. One semester of research can be conducted in NYU NY or NYU AD upon approval of Biology Area Director and NYU SH faculty advisor. The students must take the Undergraduate Research Thesis course in Shanghai in the last semester of senior year and prepare a written thesis of the research. The students must submit the research thesis for approval by two NYU Shanghai biology faculty members. Presentation of the thesis work at the NYU Shanghai Undergraduate Research Conference is required. Once a student completes all of the requirements for the honors program, there is a competitive selection process for determining which students receive the Major Honors recognition. Prerequisite: department consent. Fulfillment: Biology Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective

BIOL-SHU 997 Independent Study – Biology (2-4 Credits)*Typically offered Fall and Spring*

Prerequisite: Foundations of Science I-III (or Physics I&II, Foundations of Chemistry I&II, Foundations of Biology I&II), and a minimum GPA of 3.0 overall and in all science and mathematics courses required for the major, permission of a biology faculty member (at NYU-Shanghai, NYU-Abu Dhabi, or NYU-New York) who will act as a sponsor and mentor, and approval of the Discipline Leader in Biology. The faculty mentor must be selected in consultation with the Discipline Leader in Biology. Offered in the Fall, Spring or Summer. 2 to 4 points per term for a maximum of 4 points. This course aims at engaging students in research. It is designed to offer students an opportunity to observe biological research up close and gain hands-on research experience by working as a member in an active research team. Independent Study I and II can be done with the same supervisor or two different supervisors. No lectures will be given. Student researchers are expected to attend and actively participate in lab/supervision meetings. A Proposal for Independent Study form must be filled out, signed by the Discipline Leader in Biology, and submitted to the student's academic advisor. Requires a written report on the research to be evaluated by the faculty sponsor, with a copy submitted to the Discipline Leader in Biology and a copy to the Dean of Arts & Sciences. Prerequisite: department consent. Fulfillment: Biology Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Biology Elective

BIOL-SHU 998 Integrated Science Capstone (4 Credits)*Typically offered Fall*

This course will provide students with a completion of their undergraduate science education by making use of the skills and knowledge they acquired over the course of completing their major to apply to scientific problems across disciplines. Students will be paired with a faculty mentor to engage either in Independent Research or Literature Review to address a scientific question of the student's design, culminating in a written report. Students are encouraged to work with faculty mentors outside of their own field. Open only to Biology, Chemistry, and Physics majors in the senior year. Prerequisite: senior students with Biology primary major Fulfillment: Biology required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Required

BIOL-SHU 999 Biology Undergraduate Research Thesis (2 Credits)*Typically offered Spring*

Prerequisites: Independent Study (BIOL-SHU 997 or 998), a minimum GPA of 3.65 overall, a minimum GPA of 3.65 in all science and mathematics courses required for the major, and permission of a sponsor and the Dean of Arts & Sciences. Open to Biology majors only. The faculty mentor must be selected in consultation with the Dean of Arts & Sciences. May not be used for the major in biology. Offered in the fall, spring, and summer. 2 points. For biology majors who have completed at least one semester of laboratory research (BIOL-SHU 997 or 998) and are able to expand this work into a thesis. Requires writing a Thesis (i.e., a full literature search of the subject and a formal written report on the research in publication form), which is defended in front of a committee of three faculty (which includes the faculty sponsor), chosen by the student in consultation with the faculty mentor. (The defense may be a brief oral presentation followed by a question-and-answer session.) The Thesis and defense must be evaluated by the committee, with the cover page of the thesis signed by all committee members, with a copy of the Thesis submitted to the Dean of Arts & Sciences. (It is recommended that the student meet with the faculty committee at least once mid-semester to evaluate and guide the student's progress on the thesis work.) Prerequisite: None. Fulfillment: Biology elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Biology Elective

Business & Political Economy Program (BPEP-SHU)

BPEP-SHU 9042 The Political Economy of East Asia (4 Credits)

Typically offered Spring

This course focuses on China's political and economic development over the last century and a half with particular attention to the last 33 years, the so-called Reform Period. Our 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; (3) assess the state of China's contemporary political economy. Prerequisite: Sophomore standing or above with at least one course in BUSF-SHU. Fulfillment: CORE SSPC; GCS The Politics, Economy, and Environment of China; Social Science Political Economy Focus 300 level; Business Non-Finance/Non-Marketing elective or China Business Studies; IMB Business elective; Economics elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF China Business Studies
- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM China Business Studies
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: Economics Elective
- SB Crse Attr. NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr. NYU Shanghai: IMB Business Elective
- SB Crse Attr. NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr. NYU Shanghai: Social Science Perspective on China

Business and Finance (BUSF-SHU)

BUSF-SHU 3 Business and Economics Honors Seminar (2 Credits)

Typically offered Fall and Spring

Prerequisite: None. Fulfillment: This course may satisfy China Business Studies, depending on the individual topic; otherwise non-Finance/non-Marketing elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective

BUSF-SHU 5 Principles of Finance for Non-majors (4 Credits)

Typically offered Spring

Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

BUSF-SHU 48 Derivatives (4 Credits)

Typically offered every year

This is a course in derivatives markets, focusing on their structure, valuation and strategies. It combines theory, empirical findings and practical applications. The main applications include equity, fixed income, foreign exchange and commodity (e.g., oil, gold, silver) markets. The key derivatives instruments discussed in detail include forwards, futures, swaps and options. Readings, cases and examples include the recent Financial Crisis, the 1987 Crash, LTCM, Metallgesellschaft, and the Covid-19 Economic Crisis. Pre-requisite: Foundations of Finance. Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 101 Statistics for Business and Economics (4 Credits)

Typically offered Fall and Spring

This course introduces students to the use of statistical methods. Topics include: descriptive statistics; introduction to probability; sampling; statistical inference concerning means, standard deviations, and proportions; correlation; analysis of variance; linear regression, including multiple regression analysis. Applications to empirical situations are an integral part of the course. Pre-requisites: None Fulfillment: This course satisfies the following: Major req: BUSF, BUSM, ECON, CS, DS Foundational course; Social Science: methods course; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Business Core
- SB Crse Attr. NYU Shanghai: BUSM Business Core
- SB Crse Attr. NYU Shanghai: Computer Science Required
- SB Crse Attr. NYU Shanghai: Data Science Foundational
- SB Crse Attr. NYU Shanghai: Economics Required
- SB Crse Attr. NYU Shanghai: IMB Business Elective
- SB Crse Attr. NYU Shanghai: Social Science Methods Course

BUSF-SHU 142 Information Technology in Business & Society (4 Credits)*Typically offered Fall and Spring*

In Information Technology in Business and Society, students learn the fundamental concepts underlying current and future developments in computer-based information technology - including hardware, software, network and database-related technologies. They will also acquire proficiency in the essential tools used by today's knowledge workers and learn how these can be used to help solve problems of economic, social or personal nature. Throughout the course, they will be exposed to a range of more advanced topics which may include big data, information privacy, information security, digital piracy and digital music. Prerequisites: not open to first-semester students. Fulfillment: This course satisfies BUSF/ BUSM Business Elective, Business Analytics Track; IMB Business Flexible Core.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Business Elective
- SB Crse Attr: NYU Shanghai: BUSM Business Elective
- SB Crse Attr: NYU Shanghai: IMB Business Flexible Core Course

BUSF-SHU 188 Chinese Business and Finance -- A Bilingual Introduction (4 Credits)*Typically offered occasionally*

The course is aimed to (1) enhance students' professional Chinese-English bilingual skills in the business context and (2) promote their understanding of the macro and micro business environment and culture in China and the larger world. Adopting a case-study oriented approach that emphasizes task-based language teaching, the course, by concentrating on five real-life cases from the business world, provides a bilingual introduction to such concepts and phenomenon as business globalization, international expansion and integration, mergers and acquisition, branding strategies, impact of "Made in China" on the Chinese global economy, antidumping, and government relations, etc. Along with the case study, some of the relevant Finance, Consulting, Marketing and Accounting knowledge will also be introduced bilingually. By the end of the semester, students are expected to be equipped with enhanced Chinese and English skills to function more comfortably and confidently in the transition toward pursuing a Business-Finance major as well as preparing for future internships or job interviews. This course will be mainly conducted in Chinese with a thorough introduction of Business and Finance terminologies and concepts in BOTH Chinese and English. Prerequisite: None. Fulfillment: BUSF/BUSM China Business Studies; IMB Business elective; GCS The Politics, Economy, and Environment of China.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 200B Topics in Business (4 Credits)*Typically offered occasionally*

The course enables students to apply tools and skills, learned in this and previous business courses, by undertaking projects focused on real business cases and provided by real companies. The cases are supplied by organizations expressly for this course and concern real opportunities and challenges facing them. Students will participate on teams of 4-5 people. Each team will have a different project. They will meet the organization for which they are undertaking the project to get insights into the problem being addressed and to present their results in the end. They will also meet regularly with the professor who will give lectures on problem-solving tools and skills as well act as a mentor when the projects are undertaken. They will also meet with outside mentors, brought in from the business world to review and offer comments / suggestions. Prerequisite: Sophomore or above. Fulfillment: BUSF Non-Finance/BUSM Non-Marketing elective or China Business Studies (must have China related topic); Business Management Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 200D Business Consulting in China (4 Credits)*Typically offered Spring*

This course provides a consultant's perspective on business consulting, particularly in China context. It introduces the principles, end-to-end processes, frameworks and best practices of business consulting. The course addresses how consulting firms work, what it is like working in a consulting firm and being on a consulting project. Students will form project teams and apply the principles and frameworks to real-life business consulting projects from mid-small companies in China. Prerequisites: Management and Organizations or Intro to Marketing, requires Junior or Senior standing. Fulfillment: This course satisfies Business China Business Studies or Non-Finance/Non-Marketing elective, Business Management Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 200F Fixed Income Derivatives (2 Credits)

Fixed Income Derivatives are one of the most important financial instruments in modern finance and represent the largest component of all global derivatives. Students taking this course will learn advanced valuation techniques of all interest-rates related derivatives, including vanilla products such as interest rates forwards (FRA), interest rates futures, Eurodollar Bonds, interest rate swaps and more exotic interest rates options of various complexity. Fixed Income Derivatives can be used as stand-alone investment vehicles but also, and more importantly, as hedging instruments to minimize portfolio risks. Overall, the course will be a mix of theory and practice with weekly reference to current news in the interest rate markets. Prerequisite: BUSF-SHU 202 Foundations of Finance. Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 200G Experiential Mediation (4 Credits)

Typically offered every year

Mediation is one of the most effective processes for addressing conflicts and achieving meaningful, creative and lasting solutions that preserve relationships. While Mediation has been effective in building peace following destructive interpersonal, intercommunity and international conflicts, it still remains misunderstood and underutilized, especially in the international context. Mediation is often confused with other means of alternative dispute resolution such as arbitration, negotiation or conciliation. Mediation is characterized by self-determination of the parties; mediators do not make decisions but rather facilitate the parties to discuss their viewpoints, generate new options and create effective solutions. Mediations are usually conducted confidentially in private settings. Impartial mediators, often working in teams, guide individuals and groups through a series of stages so they can find their own solutions. The course will be designed around experiential modules and the introduction of different mediation environments. Prerequisite: None Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB business elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 202 Foundations of Finance (4 Credits)

Typically offered Fall

This course is a rigorous, quantitative introduction to financial market structures and financial asset valuation. It has three goals: 1. To develop the concepts of arbitrage, the term structure of interest rates, diversification, the Capital Asset Pricing Model (CAPM), valuation of an individual firm, efficient and inefficient markets, performance evaluation of investment management, and valuation of derivative securities, particularly options. 2. To provide sufficient background knowledge about financial institutions and market conventions for students seeking an overview of capital markets as an introduction to advanced finance courses. 3. To introduce the principles of asset valuation from an applied perspective. The majority of the class is concerned with the valuation of financial securities. These valuation issues are heavily used in portfolio management and risk management applications. Throughout the course every effort will be made to relate the course material to current financial news. To take this course, students must be comfortable with statistics, linear algebra, calculus, and microeconomics. Prerequisites: ECON-SHU 3 Microeconomics and (BUSF-SHU 101 Statistics for Business & Econ or MATH-SHU 235 Probability and Statistics). Fulfillment: This course satisfies BUSF/BUSM Major core; IMB Business Flexible Core or elective; Data Science concentration in Finance/Marketing. It counts for the Stern Minor.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Business Core
- SB Crse Attr: NYU Shanghai: BUSM Business Core
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Finance
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Marketing
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Business Flexible Core Course

BUSF-SHU 206 Investing And Financing In And With China (4 Credits)*Typically offered occasionally*

What does it take to be successful in China? How do domestic and foreign businesses do in the world's most dynamic economy? How do Chinese entrepreneurs work in a dynamic country? How do investors think about cross border investing into and out of China? How do investors think about cross border investing into and out of China? What are the leading opportunities in Chinese markets today? How are Chinese firms reshaping global business? Course overview This course is designed to prepare students for a good overview of investments, financing as well as conducting business in and with China. The class format will include lectures, case studies, discussions, guest speakers and student presentations to explore the opportunities and risks of international and domestic investments in China as well and the outward expansion of Chinese firms. The course will be require the student's active participation and parts will involve group work. Leading industry guest speakers and a site tour may be arranged for further learning enhancement, schedules permitting. The course materials will draw heavily on the lecturer's experiences. Target students / audience The target students are NYU Shanghai business & finance majors, economics majors and study abroad students from Stern. This course is suitable for any student interested in understanding international business, emerging markets, investments, cross border business and China. No prior knowledge or experience with China's business environment is required. Prerequisites: Foundations of Finance and Economics of Global Business (or Macroeconomics). Corporate Finance is recommended but not required. Fulfillment: BUSF Finance elective or China Business Studies; BUSM Non-Marketing elective or China Business Studies; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 209T Topics in Business: Senior Theses on Company Analysis and Case Study (2-4 Credits)

Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**BUSF-SHU 210 Business Analytics (4 Credits)***Typically offered occasionally*

This course introduces the basic principles and techniques of applied mathematical modeling for managerial decision making. You will learn to use some important analytic methods (e.g. forecasting, data mining, optimization, Monte Carlo simulation), to recognize their assumptions and limitations, and to employ them in decision making. The course is entirely hands-on. The emphasis will be on model formulation and interpretation of results, not on mathematical theory. The emphasis is on models that are widely used in diverse industries and functional areas, including finance, marketing, and operations. Prerequisite: BUSF-SHU 101 Statistics for Business & Econ or MATH-SHU 234 Mathematical Statistics or MATH-SHU 235 Probability and Statistics and sophomore standing or above. Fulfillment: CORE AT; BUSF/BUSM Business elective, Business Analytics Track; IMB Business Flexible Core course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: BUSF Business Elective
- SB Crse Attr: NYU Shanghai: BUSM Business Elective
- SB Crse Attr: NYU Shanghai: IMB Business Flexible Core Course

BUSF-SHU 215 Alternative Investments I: Principles & Strategies (4 Credits)*Typically offered every other year*

This course provides both a theoretical and practical look into the world of managing alternative investments, in particular, hedge funds. The long-term goal of the course is for students to understand how investment managers put outside capital to work. In order to do this, students need to understand how classic hedge fund strategies are executed, how to evaluate these strategies as well as new ones, and how to manage risk. The course intends to teach students in all of these areas. Prerequisite: Foundations of Finance (BUSF-SHU 202) Fulfillment: Business and Finance Major: Finance Elective; Business and Marketing Major: Non-Marketing Elective; IMB Business Elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 220F Debt Instruments (2 Credits)*Typically offered occasionally*

Prerequisite: None. Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 221 Professional Responsibility & Leadership (2 Credits)*Typically offered occasionally*

Professional Responsibility and Leadership (PRL) is an interdisciplinary course designed to help students: Become more familiar with the variety of ethical dilemmas that can arise in the course of business practice & in one's personal life; Understand the different values and principles that can inform and guide decision-making in such ambiguous and difficult situations; Gain experience articulating and defending courses of action as future societal & business leaders; and Begin the process of developing professional ethics in harmony with their own personal values. The format of the course is a discussion seminar. Each class session may include a variety of activities, including: discussion, in-class reading and writing, role-playing, and other participatory exercises. These various activities will be designed and facilitated by the instructor to allow students to engage in a reflective dialogue. These discussions draw from three different sources: 1) the students' own personal experiences and values; 2) expert insights drawn from a variety of academic disciplines including philosophy, literature, history, and art, as well as the natural and social sciences; and 3) relevant business cases. In each class session, students consider a set of expert accounts identified by the instructor as starting points for discussion, and then they integrate their experiences with business cases that have personal relevance for them. The overarching themes of this dialogue include: 1) the relationship between business and society on a global, national and local basis; 2) the foundations of personal and professional business ethics; and 3) the exercise of leadership in organizations. These themes are developed in reference to a series of cases that have been either drawn from recent news reports on business practice or drafted specifically for this course by NYU Stern faculty. In this way, the PRL classroom is 'flipped' – the course focuses primarily on the students' own interests and refines them both through dialogue and in reference to expert sources. Rather than involving the one-way dispensation of 'content' from faculty to student, the course unfolds as a 'process' of students and faculty working together in response to open-ended, age-old questions. While there may be no 'right' answer to such questions in the way that mathematical problems may be solved, still there are answers that are better or worse for individuals, organizations and societies. In this light, students are encouraged to challenge themselves and each other to make the world a better place, and to discover how they can thrive individually and collectively. Pre-requisites: None. Fulfillment: BUSF Non-Finance; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 222 Risk Management in Financial Institutions (4 Credits)*Typically offered occasionally*

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. Prerequisite: BUSF-SHU 202 Foundations of Finance. Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 225 Negotiation and Consensus Building (4 Credits)*Typically offered occasionally*

This course will teach you the science and practice of negotiation - creating agreements between two or more interdependent parties. We negotiate daily with potential employers, co-workers, landlords, merchants, service providers, significant others, family members, friends, roommates, and more. These negotiations often lead to outcomes that are less than they could be, and at times they also lead to conflict. Although we negotiate often, many of us know very little about the strategy and psychology of effective negotiation. The main objectives of this course are to help you understand the structure of negotiation as it is practiced in a variety of settings, and to help you feel more comfortable and confident with the negotiation process. We will discuss theories and principles to guide our negotiations (the science). And students will develop and sharpen their bargaining skills by actually negotiating with other students in experiential exercises (the practice). Prerequisites: None Fulfillment: BUSF Non-Finance Elective; BUSM Non-Marketing elective; Business Management Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 225.1 Negotiation and Consensus Building: Theoretic Foundations (2 Credits)

This course will teach you the science of negotiation - creating agreements between two or more interdependent parties. We negotiate daily with potential employers, co-workers, landlords, merchants, service providers, significant others, family members, friends, roommates, and more. These negotiations often lead to outcomes that are less than they could be, and at times they also lead to conflict. Although we negotiate often, many of us know very little about the strategy and psychology of effective negotiation. The main objectives of this course are to help you understand the structure of negotiation as it is practiced in a variety of settings, and to help you feel more comfortable and confident with the negotiation process. We will discuss theories and principles to guide our negotiations. Prerequisites: None (It is not necessary to be enrolled in BUSF-SHU 225.2 to take this course). Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 225.2 Negotiation and Consensus Building: Cases and Practices (2 Credits)

This course will teach you the practice of negotiation - creating agreements between two or more interdependent parties. We negotiate daily with potential employers, co-workers, landlords, merchants, service providers, significant others, family members, friends, roommates, and more. These negotiations often lead to outcomes that are less than they could be, and at times they also lead to conflict. Although we negotiate often, many of us know very little about the strategy and psychology of effective negotiation. The main objectives of this course are to help you understand the structure of negotiation as it is practiced in a variety of settings, and to help you feel more comfortable and confident with the negotiation process. Students will develop and sharpen their bargaining skills by actually negotiating with other students in experiential exercises. Corequisites: BUSF-SHU 225.1 Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 228 Sustainable Finance: Climate-Conscious and Long-Term Investing (3 Credits)

Typically offered every year

In this class, we will focus on how to finance long-term projects and the role of finance in promoting sustainability. A natural example of long-term projects in desperate need of financing are green investments and infrastructure. We cover the history of thought on corporate governance, the rise of shareholder primacy, and recent efforts to promote more inclusive ownership such as stakeholder capitalism. We discuss challenges of securing long term financing and aligning incentives between different parties. A relevant example of the latter is the rise of so-called ESG initiatives and the unintended consequences of managerial discretion in choosing performance measures. Co-/Pre-requisite: Foundations of Finance (BUSF-SHU 202) Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective; Social Science Focus Environmental Studies 200 level course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective
- SB Crse Attr. NYU Shanghai: Social Science Focus Environmental Studies

BUSF-SHU 229 Behavioral Finance (4 Credits)

Typically offered occasionally

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. Pre-requisites: Corporate Finance Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 232 Entrepreneurship Explored (4 Credits)*Typically offered occasionally*

The main aim of this course is to probe into the core rationale behind entrepreneurship: taking initiatives to make changes. Lecturing only accounts for less than one-third of the course, and students are expected to exhibit a high level of self-motivation to critically examine established and emerging ideas that have been shaping and transforming the concept and practices of entrepreneurship, as exemplified in specific cases and current practices. Students will thus be prompted to think critically and creatively about how to respond to the complexities of changes. The course lays emphasis on creativity, ethics, and future-oriented vision. Prerequisite: None Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Interactive Media Elective Courses or Business elective; IMA elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

BUSF-SHU 244 Portfolio Management (4 Credits)*Typically offered occasionally*

Portfolio management: The art and science of making decisions about investment mix and policy, matching investments to objectives, asset allocation for individuals and institutions, and balancing risk against performance. (Investopedia) The primary objective of the course is to study the theory and empirical evidence relevant for investing, particularly in the context of portfolio management. The basic theoretical framework is standard modern portfolio theory, as developed in Foundations of Finance, and its extensions. "Modern portfolio theory" is a general approach for maximizing the expected return of a portfolio given a certain amount of risk. This approach is the basis of virtually all quant investing strategies and is widely used by traditional portfolio managers as well. There has been a proliferation of new products and strategies in the asset management space in recent years, e.g., 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., US and international equities and bonds, currencies, and commodities). Key questions 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 course will rely heavily on Excel modeling using real world data. The course also covers, to a lesser extent, the institutional landscape of the asset management business—the firms (e.g., Blackrock, Vanguard), the vehicles (e.g., mutual funds, ETFs, hedge funds), and the trends (e.g., active vs. passive, fee competition). Prerequisite: Foundations of Finance Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 250 Principles of Financial Accounting (4 Credits)*Typically offered Fall and Spring*

Develops students' abilities to understand business transactions and financial statements and to determine the most appropriate financial measures for these events. Investigates the underlying rationale for accounting practices and assesses their effectiveness in providing useful information for decision making. Emphasis is placed on accounting practices that purport to portray corporate financial position, operating results, cash flows, manager performance, and financial strength.

Prerequisite: Not open to first-semester students. Fulfillment: This course satisfies BUSF/BUSM Major core /Business Accounting track; IMB Business required Foundation /elective; Data Science concentration in Finance/Marketing. It can count for the CAS Business Studies Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Business Core
- SB Crse Attr: NYU Shanghai: BUSM Business Core
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Finance
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Marketing
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Required Business Foundation Course

BUSF-SHU 252 Global Business Immersion: Shanghai (3 Credits)*Typically offered Spring*

This exclusive study-away course offers Stern students a unique learning experience in Shanghai, one of the world's most dynamic business hubs. Through localized business course content, company site visits, and executive-level speaker engagements, students will gain a deep, firsthand understanding of the challenges and opportunities special to China's rapidly evolving market. Prerequisite: Sophomore standing or above. Fulfillment: BUSF Non-finance elective; BUSM non-marketing elective; Business majors China Business Studies.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 270 Financial Reporting & Disclosure (4 Credits)*Typically offered occasionally*

The prerequisite for this course is ACCT-UB 3, Financial Statement Analysis. Students learn the financial reporting rules associated with the concepts learned in FSA. The course emphasizes the relationship between financial statements and the reporting rules on which they are based. Prerequisite: Principles of Financial Accounting Fulfillment: IMB Business elective; BUSF Non-Finance elective; BUMS Non-Marketing elective, Business Accounting track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 271 AI for Business – Reinforcement Learning (2 Credits)*Typically offered occasionally*

Artificial Intelligence (AI) is reshaping business processes, creating disruptive innovations that change established industries and markets beyond recognition. The emergence of powerful algorithms, combined with recent growth in computational power and availability of massive amounts of data, enable companies to operate faster, make better decisions, automate processes, maximize revenue and customer engagement, among many other advantages. In this 7-week course we will briefly discuss some of the core principles underlying AI and then focus on a few selected applications of AI in business, such as predictive analytics for maximizing marketing and financial strategies, pattern recognition to understand customer behavior, and conversational AI and chatbots to improve engagement and customer experience. Last, AI also possesses significant limitations and poses new challenges with respect to fairness, biases, and automated errors. The course will conclude with a discussion of the main ethical issues and risks associated with AI technology. Prerequisite: Calculus and ICP. Sophomore or above students. Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 272 Blockchain and its Business Applications (4 Credits)*Typically offered occasionally*

Blockchain is a disruptive technological innovation behind the rapid emergencies of cryptocurrencies and distributed ledger systems. More and more companies have begun to integrate blockchain-based technology into their existing business models. The course is designed to provide business students with an understanding of key concepts and developments around the blockchain technology from multiple perspectives, including technology, law, and economics. Meanwhile, students will develop a strategic awareness of an array of business applications enabled by blockchain to disrupt every industry, e.g., commercial contracts, supply chains, and financial instruments. Besides readings and lectures, the course will heavily feature interactive activities through hands-on exercises, case studies and group work among students from different backgrounds. Prerequisite: None. Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 273 Big Data and Data Mining: Business Applications (4 Credits)*Typically offered Spring*

Big data and analytical thinking are critical for modern businesses to create long-term competitive advantage. Serving as an introduction to investigate how big data and data mining can be used to directly impact business decisions, this course discusses the need of data mining, bridges the divide between technical skills and business know-how, and explains how to extract actionable knowledge from massive amounts of data through business case discussions, assignments, and individual/group projects. Prerequisite: CSCI-SHU 11 Introduction to Computer Programming Fulfillment: BUSM Marketing elective; BUSF Non-Finance elective; Business Analytics track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 274 Distributed Ledger Technology: Ethereum, DeFi, and Beyond (4 Credits)*Typically offered Fall and Spring*

One of the most exciting socio-technological developments in the past decade has been the emergence of blockchain technology, and with it the Blockchain Economy. This subset of the digital economy has mostly been driven by the Internet-of-Value (web3.0) where decentralized platforms compete over user's investments in various blockchain verticals. These include Decentralized Finance (DeFi) - a vibrant decentralized money management ecosystem, NFT's that promise to overhaul how we consume and invest in art, DAO's that decentralize business governance, various novel financial instruments such as perpetuals, ERC20's to disintermediate resource sharing, and many more. Fulfillment: BUSF Non-finance Elective; BUSM Non-marketing Elective; IMB Business Elective. Prerequisite: CSCI-SHU 11 Introduction to Computer Programming. Antirequisite: Students who have taken ECON-SHU 232 Blockchain, Cryptocurrency & Money or BUSF-SHU 366 Applications in Entrepreneurial Finance: Fintech are not eligible to enroll.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Prerequisites:** CSCI-SHU 11 Introduction to Computer Programming.**Antirequisites:** Students who have taken ECON-SHU 232 Blockchain, Cryptocurrency & Money or BUSF-SHU 366 Applications in Entrepreneurial Finance: Fintech are not eligible to enroll.

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 275 Exploring the Future of Innovations: Emerging Technologies, Business Strategies and Development (4 Credits)*Typically offered Spring*

This 14-week course is accurately designed to offer students a holistic understanding of the impacts, challenges, and opportunities arising from emerging technologies, including artificial intelligence, biotechnology, blockchain, and the Internet of Things. Featuring abundant contemporary industry cases, the course paints a dynamic scene of the convergence between the business landscape and technological advancements. Through this exploration, students enquire the future of innovation, examining tangible applications of emerging technologies in business strategy and development. Prerequisite: None. Fulfillment: BUSF Non-Finance Elective; BUSM Non-Marketing Elective; Business Management Track Elective; IMB Business Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 276 AI for Business – Machine Learning (2 Credits)*Typically offered every year*

Machine Learning (ML) is the driving force behind modern Artificial Intelligence (AI). This rapidly evolving field is situated at the intersection of computer science, mathematics, statistics, and optimization. The recent advances in computational power, availability of massive data, and powerful algorithms have revolutionized consumer applications such as Google Translate, Amazon Alexa, face recognition apps, Netflix recommendations, and self-driving cars. This course aims to provide a foundational understanding of machine learning and its applications in solving real-world business data-driven problems. Prerequisite: CSCI-SHU 11 Introduction to Computer Programming AND MATH-SHU 131 Calculus AND Sophomore standing Fulfillment: IMB Business elective; BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Analytics track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 286 Chinese Financial Markets (4 Credits)*Typically offered occasionally*

This course introduces the institutions, instruments, and empirical regularities of Chinese financial markets and the role these markets play in the broader Chinese economy. The goal of the course is to provide students with a comprehensive understanding of Chinese financial markets. The course begins with redux in Money, Banking and Finance and an overview of the evolution of China's financial system. The main part of the course focuses on current issues and debates about Chinese financial markets. Some of the topics include the Chinese banking system, RMB exchange rates, Chinese stock markets and bond markets, mutual fund and hedge fund industry, Chinese derivative markets and other important topics. The similarities and differences between Chinese financial markets and more developed financial markets will be highlighted. Pre-requisites: Foundations of Finance or Principles of Finance Fulfillment: BUSF China Business Studies or Finance elective; BUSM China Business Studies or Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF China Business Studies
- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM China Business Studies
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 288 Doing Business with China (4 Credits)*Typically offered Fall and Spring*

The course is designed to help the students to better understand business practices, environment, and cultures in China. Special focus will be placed on the understanding of the political, institutional, and financial contexts within which business activities unfold. The course will also discuss the implications of regional and global factors in shaping opportunities and constraints on businesses in China as well as the impact of Chinese business on international markets. Learning goals of the course are to: 1. Become knowledgeable in select concepts of the businesses in China; 2. Obtain essential knowledge on the evolution and development of business in China; 3. Develop an awareness of the political, socioeconomic, and cultural aspects of life in China, including critiques of common intercultural stereotypes around values and assumptions related to Chinese society and business practices; 4. Gain practical experience in interacting with diverse Chinese business communities. Prerequisite: Junior or Senior students with primary or secondary major in Business/ IMB/ Social Science/ GCS/ Economics Fulfillment: This course satisfies Business China Business Studies course or Non-Finance/Non-Marketing elective, Business Management Track; IMB Business Elective; GCS Elective The Politics, Economy, and Environment of China.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF China Business Studies
- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM China Business Studies
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 289 NYU Big Ideas Series: The Role of China in the Future of World Business (4 Credits)*Typically offered every year*

"This course provides students the opportunity to learn and explore the roles of China in the future of world business through lectures and discussions. Through understanding the past, examining the current and projecting the future developments, a wide range of important business topics will be analysed including: • China's role as the factory of the world • Chinese brands' global expansion • Financial market reform • RMB Internationalization • Doing business IN China and WITH China • China's growth model • and more The course is taught by experienced practitioners and academics with deep knowledge about China, its impact and connections with the world business." Prerequisite: Shanghai home students only. Fulfillment: China Business Studies; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF China Business Studies
- SB Crse Attr. NYU Shanghai: BUSM China Business Studies
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 303 Corporate Finance (4 Credits)*Typically offered Spring*

This course analyzes the major financial decisions made by corporate managers. The major topics include the objective of the firm, investment valuation and capital budgeting, risk management, capital structure and dividend policy. Insights from behavioral corporate finance that help better understand corporate decisions in practice will also be discussed. There will be emphasis on both developing the tools and mindset of the financial practitioner as well as examining specific applications in the form of examples, case discussions, and classroom simulations. Prerequisite: BUSF-SHU 202 Fulfillment: This course satisfies BUSF core: BUSM Business elective; Data Science concentration in Finance; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Core
- SB Crse Attr. NYU Shanghai: BUSM Business Elective
- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in Finance
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 304 Futures and Options (4 Credits)*Typically offered Fall and Spring*

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. Prerequisite: BUSF-SHU 202. Fulfillment: This course satisfies BUSF Finance Elective; BUSM Non-Marketing Elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 305 Debt Instruments and Markets (4 Credits)*Typically offered Fall*

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. Prerequisite: BUSF-SHU 202. Fulfillment: This course satisfies BUSF Finance Elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 308 Hedge Fund Strategies (4 Credits)

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 will be invited to provide a real-life perspective and to discuss key issues. Pre-requisites: Corporate Finance Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 309 Financial Statement Analysis (4 Credits)*Typically offered Spring*

The course analyzes how firms communicate through financial statements. Students use financial statement analysis as an integral part of the strategic analysis of firms, while understanding how accounting regulations and managerial discretion influence presented financial statements. Course modules include strategic analysis, risk and profitability analysis using ratios, accounting analysis, and prospective analysis. By the end of the course, students can interpret and analyze financial statements, analyze cash flows, make judgments about earnings quality, uncover hidden assets and liabilities, and use financial statement analysis prospectively to forecast and value firms using cash flow-based and accounting-based valuation methods. Students who wish to pursue careers in investment banking, investment management, consulting, and accounting are encouraged to take the course. Prerequisite: None. Fulfillment: This course satisfies BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Accounting Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 310 Data Science for Social and Information Networks (4 Credits)*Typically offered occasionally*

The world we live in is built upon a myriad of networks: Human society is defined by our interpersonal relationships. Organizations are structured around interconnecting roles and lines of authority between workers, colleagues, and bosses. Global information is conveyed across a world-wide web of linked content. As we have witnessed recently, epidemics spread over a social network of contacts, in the same way in which we buy products as we are influenced by our peers. New sources of massive amounts of data fundamentally reflect interactions, and, in this context, networks are intuitive abstractions to model our social life, especially that mediated by technology. In networks, local interactions among members of small communities can often propagate and further affect the outcomes of an entire system. This course combines theories, models, and algorithms from computer science, economics, and the social sciences to analyze network data and find solutions to business problems. More information: <https://shanghai.nyu.edu/is/course-spotlight-network-analytics> Prerequisites: Introduction to Computer Programing (to manipulate network datasets), and Calculus. Fulfillment: This course satisfies BUSF Non-Finance Elective; BUSM Non-Marketing elective; IMB Business Elective; Social Science methods; Computer Science elective; Data Science Concentration in AI.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: Computer Science Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective
- SB Crse Attr. NYU Shanghai: Social Science Methods Course

BUSF-SHU 311 New Venture Strategy (4 Credits)

This course intends to inspire students to re-conceptualize the essence of strategy from the entrepreneurial perspective. Students will be introduced to a new set of decision-making framework and tools for optimizing the most critical strategic choices faced by entrepreneurs. Based on these framework and tools, students will learn how to analyze the strategic positioning of various businesses in the world history of entrepreneurship, from Estee Lauder's cosmetic empire during the 2nd World War to Jack Ma's smart business in the digital era. It is a process designed for students to experience the power of strategy and understand why it matters enormously for new ventures. Prerequisite: sophomore standing and higher Fulfillment: This course satisfies BUSM Non-Marketing Elective; BUSF Non-Finance Elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 312 International Business and Trade (4 Credits)

International trade has fostered global economic growth as it provides investment, jobs, and access to technology. It offers opportunities to millions of people and has helped them to get out of the poverty. An understanding of real-world international trade rules and business practices is key for students in today's interdependent world. This course introduces students to the theories, systems, and practices of international trade, with emphasis on empirical knowledge. Students will learn the fundamentals around international trade and gain a systematic understanding of why nations trade, what to trade, and especially how they trade. Students will learn principles of the multilateral trading system, international trade terminologies, operations/logistics, insurance, cross-border e-commerce; as well as technology and intellectual property rights and international commercial dispute settlement. Expected learning goals of the course are: # Identify and analyse international trading system, the latest global trends of trade business and investments # Acquire knowledge of fundamental concepts, terms, and documents to facilitating international trade # Understand what is an international trade deal and how it works in all its components, including sales contracts, transportation, finance arrangements, market price management # Be familiar with the use of latest technologies in international trade Prerequisite: Open to sophomores, juniors, and seniors from all majors. Fulfillment: This course satisfies Business China Business Studies (if China related); BUSM: Non-Marketing Elective; BUSF Non-Finance Elective; Management Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 318 Investing in Emerging and Frontier Markets: Opportunities and Challenges (4 Credits)

Taught by a seasoned practitioner who worked in international development finance and capital market for 30+ years, this advanced undergraduate seminar will enable students to gain broad understanding of how financial system and investment work in emerging and frontier markets (EM/FM), including comparative advantages and disadvantages vis a vis developed markets. Students will become familiar with players, institutions, asset classes, processes and market infrastructure when investing in EM/FM. Through individual and group projects, research papers and presentations, students will also gain a deeper understanding of specific issues of interest and appreciation of the unique opportunities, complexity, and risks in EM/FM investment. Pre-req: BUSF-SHU 202 Foundation of Finance Fulfillment: Business and Finance: Non-Finance Elective; Business and Marketing: Non-Marketing Elective; IMB Business Elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 321 Equity Valuation (4 Credits)

Typically offered Fall and Spring

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. Prerequisites: BUSF-SHU 303 Corporate Finance and Junior or Senior students. Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-marketing elective; Business Finance track; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 334 Advanced Futures and Options (4 Credits)

Typically offered occasionally

This course consists of three parts. The first section of the course is 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 derivative 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 of the course 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. Pre-requisite: Foundations of Finance Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 350 Managerial Accounting (4 Credits)

Typically offered occasionally

Introduces students to the evolving role that managerial accounting has played and is expected to play in servicing the informational needs of managers in the planning, organizing, and controlling functions. Highlights the attention-directing, decision-support, and decision-influencing roles of managerial accounting, while helping students learn to structure business decisions systematically and identify the information relevant to a decision. Trains students to think analytically about improving existing systems to further a firm's competitive advantage. Prerequisite: Principles of Fin Accounting (BUSF-SHU 250). Fulfillment: This course satisfies BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Accounting track; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 351 Operations Management (4 Credits)*Typically offered Fall and Spring*

Operations Management (OM) plans and coordinates all activities in the process of producing and delivering products (goods and services). Effective operations management is a key ingredient of success in most industries. Achieving operations excellence is one of the most essential strategies to improve efficiency and to gain a competitive advantage. The goal of this course is to introduce students to the fundamental concepts, problems, and strategies in the operations function of a firm. This course will cover a mix of qualitative and quantitative methods that provide the necessary tools to make intelligent decisions in operations. Prerequisites: Sophomore Standing. Fulfillment: This course satisfies BUSF/BUSM Business Elective or non-Finance/non-Marketing elective; Business Analytic track; IMB Business Flexible Core or elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Business Elective
- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Business Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Business Flexible Core Course

BUSF-SHU 353 International Financial Management (4 Credits)*Typically offered occasionally*

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. Prerequisites: BUSF-SHU 202 Foundations of Finance and ECON-SHU 250/251 Economics of Global Business. Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-Marketing elective; Business Finance Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 361 Entrepreneurial Finance (4 Credits)*Typically offered every other year*

This course seeks to provide an understanding of the financial and transactional skills that are required to fund new businesses and mature firms. The course will integrate 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. Prereq: None Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 366 Applications in Entrepreneurial Finance: Fintech (4 Credits)*Typically offered every other year*

In this class, we will focus on the key technologies in the fintech landscape. Starting from the mid 1970's, we will cover major innovations such as the introduction of options markets, index funds, and securitizations. We will then discuss new advances in fintech including digital asset management, lending platforms, and blockchain. Particular emphasis will be placed on understanding why some innovations take off, while others languish. Prereq: Foundations of Finance Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 369 Quantitative Strategies (4 Credits)*Typically offered Spring term of odd numbered years*

This course is designed to teach students about the principles and techniques of quantitative and algorithmic trading which involves the application of mathematical and statistical tools to analyze financial markets. Students will work in groups of two to three to develop their own trading strategies step by step through generating trading ideas, back-testing strategies, executing trades and evaluating different strategies' performance. By the end of this course, students will have learnt most of the widely used trading strategies in the quant fund market and will be able to apply the knowledge to develop their own quantitative trading strategies. Prerequisite: BUSF-SHU 202 Foundations of Finance and CSCI-SHU 11 Introduction to Computer Programming Fulfillment: BUSF Finance Elective; BUSM Non-Marketing Elective; IMB Business Elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 390 Corporate Transaction Financial and Valuation Modeling (4 Credits)*Typically offered every year*

This course is focused on corporate transactions including M&A (mergers and acquisitions) and its valuations. This is intended to provide students a solid understanding of the different dynamics, structuring, legal, and other considerations of corporate M&A transactions and their valuation from both a theoretical and hands-on modeling framework. The course's materials will well prepare students for careers in M&A, investment banking, and valuation from corporate, financial sponsors, sell-side, and buy-side perspectives. Students will be able to:

- Understand and analyze the theory, motivations, structuring, and major processes behind M&A
- Model various financial and valuation analyses under complex financial combinations

Prerequisite: Foundations of Finance, and Economics of Global Business (or Macroeconomics). Corporate Finance – highly recommended, While not required, other valuation courses such as Investing and Financing In and With China, Equity Valuation, Debt Instruments, etc. and accounting classes such as Financial Statements Analysis, etc. are helpful. This course is an upper-level finance elective. Fulfillment: BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 420 Business Topics Course: Financial Market Volatility Modeling (4 Credits)*Typically offered every year*

The most fascinating aspect of financial market prices is how they change. The uncertainty or risk related to the size of changes in prices is referred to as financial volatility. Volatility can present significant investment risk, when correctly harnessed. It can generate solid returns for shrewd investors. It is also a tradable market instrument in itself. Even when markets are choppy, crash, or surge, there can be opportunity. In this course, students will learn how to measure and forecast financial volatility. They will study historical volatilities, exponential smoothing, ARCH/GARCH models, high frequency stochastic volatility models and implied volatilities from options. These tools will be applied to measuring risk, analyzing alternative approaches to calculating Value at Risk, measuring and forecasting correlations, solving the problem of dynamic portfolio selection, risk control and trading. Prereq: Foundations of Finance and a familiarity with simple probability and statistics including least squares regression. Programing experience will be preferred. Fulfillment: This course satisfies BUSF Finance/non-Finance elective; BUSM Non-Marketing elective; Business Analytics Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 421 Financial Distress, Restructuring, and Turnaround (4 Credits)*Typically offered Spring*

This finance course is designed to provide students with a comprehensive understanding of financial distress, corporate restructuring, and turnaround management. The course will cover theoretical frameworks, practical tools, and real-world case studies to equip students with the knowledge and skills necessary to analyze and navigate corporate restructuring and financial distress situations. The course is specifically tailored for students interested in pursuing careers in investment banking, hedge funds, private equity, management consulting, and entrepreneurship. Prerequisite: BUSF-SHU 202 Foundations of Finance and BUSF-SHU 250 Principals of Financial Accounting Fulfillment: BUSF Finance Elective; BUSM Non-Marketing Elective; IMB Business Elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 441 Private Equity & Venture Capital in Asia and Emerging Markets (4 Credits)*Typically offered Fall and Spring*

This course is focused on the industry of private equity and venture capital (PE/VC) with a focus on Asia and emerging markets. This is intended to provide students a good general understanding of the different dynamics of PE/VC and similarities and differences between the Asia/emerging markets and western markets. The entire PE/VC life cycle will be discussed from different perspectives. Prerequisite: BUSF-SHU 202 Foundations of Finance and BUSF-SHU 303 Corporate Finance. Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

BUSF-SHU 442 International Project and Structured Investing and Financing (4 Credits)*Typically offered every year*

This course is designed to prepare students to have a good general understanding of project and structured investing and finance especially with on international projects in the infrastructure, energy and transportation sectors. This will provide an overview of investments, financing, strategies and other elements in project and structured investing and finance both in China, Asia, and globally. The class format will include lectures, case studies, discussions, and guest speakers (time dependent). The course will require the student's active participation. Leading industry guest speakers may be arranged for further learning enhancement, schedules permitting. The course materials will draw heavily on the lecturer's experiences. Prerequisite: Foundations of Finance, Corporate Finance and Economics of Global Business (or Macroeconomics). Fulfillment: This course satisfies BUSF Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 499 Senior Thesis Seminar (2 Credits)*Typically offered every year*

Based on the instructor's extensive research, writing, and peer-review publication experience, this seminar provides a forum for students to examine business issues, discuss their research, and survey approaches related to the structure, organization, and presentation of their theses. Students will engage in group discussions, participate in writing exercises, and generally gain experience in the iterative writing process. At the conclusion of this seminar, students will have produced a senior thesis that is fit for submission. Prerequisite: Must be a senior in the business major Fulfillment: General elective.

Grading: Ugrd Shanghai Pass/Fail**Repeatable for additional credit:** No**BUSF-SHU 997 Business Independent Study (1-4 Credits)***Typically offered Fall, Spring, and Summer terms*

Department consent is required. Fulfillment: This course satisfies BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

BUSF-SHU 9289 NYU Big Ideas Series: The Role of China in the Future of World Business (2 Credits)*Typically offered every year*

This course provides students the opportunity to learn and explore the roles of China in the future of world business through lectures and discussions. Through understanding the past, examining the current and projecting the future developments, a wide range of important business topics will be analysed including: • China's role as the factory of the world • Chinese brands' global expansion • Financial market reform • RMB Internationalization • Doing business IN China and WITH China • China's growth model • and more The course is taught by experienced practitioners and academics with deep knowledge about China, its impact and connections with the world business. Prerequisite: Open to non-shanghai students only. Fulfillment: General elective.

Grading: Ugrd Shanghai Pass/Fail**Repeatable for additional credit:** No

Chemistry (CHEM-SHU)

CHEM-SHU 125 Foundations of Chemistry I (3 Credits)*Typically offered Fall*

This course constitutes an introduction to general aspects of chemistry for science, engineering and math majors. Topics include the theories of atomic structure, stoichiometry, properties of gases, kinetic molecular theory, thermodynamics, quantum mechanics, electronic structure of atoms, periodicity of the elements, chemical bonding, and molecular structure. A particular emphasis is placed on developing physical and chemical intuition through problem solving. pre-req or co-req: MATH-SHU 121 Calculus or MATH-SHU 201 Honors Calculus Fulfillment: Core Curriculum: Science Experimental Discovery in the Natural World Courses; Major: Biology Foundational Courses; Chemistry Foundational Courses; Mathematics & Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Physics Foundational Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

CHEM-SHU 126 Foundations of Chemistry II (3 Credits)*Typically offered Spring*

This course is a continuation of Foundations of Chemistry I. Topics covered include the theories of intermolecular interactions, molecular orbital theory, reaction kinetics, chemical equilibria, acid-base reactions, properties of solutions, properties of solids, phase changes, transition-metal chemistry, coordination chemistry, electrochemistry, and nuclear chemistry. Students will reinforce and refine their physical and chemical intuition with a problems-based approach. pre-req: CHEM-SHU 125 Foundations of Chemistry I AND pre-req or co-req: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus Fulfillment: Biology Foundational Courses; Chemistry Foundational Courses; Mathematics & Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Physics Foundational Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

CHEM-SHU 127 Foundations of Chemistry I Lab (2 Credits)*Typically offered Fall*

In this laboratory course, students will be familiarized with various techniques, equipment, data analysis skills, best practices in lab safety and ideas common to chemistry laboratories and experimental research. The lab will both introduce and reinforce principles covered in the Foundations of Chemistry Lectures by providing practical applications of chemical theories, including acid-base chemistry, thermodynamics, spectroscopy, chemical kinetics, and buffer solutions, and applying quantitative data analysis in the chemistry lab. In addition, the laboratory will emphasize scientific communication, including scientific writing. As part of the course, students will work on a multi-week project, comparable to a graduate level independent-research project. Previous activities have included studying crystal growth and DNA thermodynamic parameters. With the help of their instructors and peers, students will learn the skills of modern scientific research: proposing a hypothesis, developing a proposal to test the hypothesis, collecting and analyzing data, writing a report, and presenting the findings to the public as a poster or an oral presentation. These skills will help students to develop and build their careers regardless of the major or discipline of study they are seeking. pre-req or co-req: CHEM-SHU 125 Foundations of Chemistry I Fulfillment: Core Curriculum: Experimental Discovery in the Natural World Courses; Major: Biology Foundational Courses; Chemistry Foundational Courses; Mathematics & Honors Mathematics Science Lab sections; Neural Science Foundational Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

CHEM-SHU 128 Foundations of Chemistry II Lab (2 Credits)*Typically offered Spring*

Prereq for CHEM-SHU 128 is Prereq OR Coreq: Calculus/ Honors Calc (MATH-121/201) AND Prereq OR Coreq: Found of Chem II (CHEM-SHU 126). Fulfillment: Biology Foundational course; Chemistry Foundational course; Neural Science Foundational course; Physics Foundational course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

CHEM-SHU 225 Organic Chemistry I (3 Credits)*Typically offered Fall*

This course uses an interactive, problems-based approach to study the structure and bonding of organic materials, conformational analysis, stereochemistry, and spectroscopy, topics that partly trace their roots to the development of quantum theory. The topics covered include basic reaction mechanisms such as substitution and elimination, and the reactions of aliphatic and aromatic hydrocarbons, alcohols, ethers, amines, carbonyl compounds, and carboxylic acids. The course incorporates modern analytical methods that are the cornerstone of contemporary organic chemistry. Prerequisite: Foundations of Chemistry II AND (Pre-req or Co-req: Foundations of Chemistry I Lab or Foundations of Chemistry II Lab.) Fulfillment : Biology Major Additional Required Courses; Chemistry Major Additional Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Required
- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 225L Organic Chemistry I Lab (2 Credits)*Typically offered Fall*

This Organic Chemistry I Laboratory course is intended to introduce students to major concepts and techniques in organic chemistry through laboratory experiments. The course will provide training in the techniques of the organic chemistry laboratory, such as carrying out chemical reactions and purification of chemical mixtures. Purification methods such as recrystallization, extraction, distillation, and column chromatography will be utilized. Chemical identification and purity will be determined by methods such as chemical tests, melting point, boiling point, thin-layer chromatography (TLC), gas chromatography (GC) and spectroscopy: infrared (IR), ultraviolet (UV) and visible light. Expanding students knowledge base and critical thinking skills will help students to prepare for a wide array of potential future challenges, including the upper level courses, organic requirements for medical schools, and independent research. This course satisfies: Chemistry Major: Additional Required Courses. Prereq or coreq: Organic Chem I (CHEM-SHU 225) Fulfillment : Biology Major Additional Required Courses; Chemistry Major Additional Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Required
- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 226 Organic Chemistry II (3 Credits)*Typically offered Spring*

This is a continuation of the course Organic Chemistry I, directing to the same objectives: An introduction to the world of Organic Chemistry; learning the main classes of compounds, their structure, nomenclature, reactivity and reactions. Students who complete the course should be able to understand the symbolism used in organic chemistry, the three-dimensional structure of organic molecules, and how that influences organic reactions. Students should be able to reproduce reaction mechanisms and relate those to compounds and reactions they have not encountered. Students should be able to predict the major product of simple reactions on organic compounds containing only one functional group and apply those same principles to more complex compounds containing multiple functional groups. Students should be able to design simple organic syntheses. Students should be able to read and comprehend articles from the current literature. Prerequisite: CHEM-SHU 225. Fulfillment: Chemistry Additional Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 226L Organic Chemistry II Lab (2 Credits)*Typically offered Spring*

This Organic Chemistry II Laboratory course is a continuation of the Organic Chemistry I Laboratory course. Students who complete the course are able to correlate, for the different functional groups studied, the molecular structure with common chemical and physical properties (such as solubility, reactivity, boiling and melting points). Students are able to characterize and elucidate structures using chemical and spectroscopic techniques. Students are able to characterize organic compounds based on physical and chemical properties (such as polarimetry, FT-IR spectroscopy, ¹H FT-NMR and other spectroscopic data) and purify organic compounds by physical methods such as chromatography, recrystallization, solvent extraction, sublimation, distillation, etc. Co-requisite or Prerequisite: CHEM-SHU 226. Fulfillment: Chemistry Additional Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 312 Analytical Chemistry (4 Credits)*Typically offered occasionally*

Analytical Chemistry uses qualitative and quantitative analytical tools for ascertaining the chemical composition of a substance. In this course, students will be introduced to instrumental methods, including titrations, spectroscopy (UV-Vis, FTIR, NMR, Mass Spectroscopy, Atomic Absorption Spectroscopy) and chromatography. Quantitative measurement methods will be introduced along with the statistical concepts and tools of estimation, confidence, accuracy and precision. Students will learn the theoretical and practical aspects of Analytical Chemistry through lectures and laboratory demonstrations. Prerequisites: CHEM-SHU 126 Foundations of Chemistry II. Fulfillment: Chemistry Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Chemistry Elective

CHEM-SHU 651 Physical Chemistry: Quantum Mechanics and Spectroscopy (4 Credits)*Typically offered occasionally*

An introduction to quantum mechanics—general principles and applications to important model systems. Covers electronic structure of one- and many-electron atoms, theory of chemical bonding in diatomic and polyatomic molecules. Includes principles and applications of molecular spectroscopy: rotational, vibrational, electronic, and nuclear magnetic resonance. Elements of photochemistry are also included.

Prerequisites: PHYS-SHU 12 General Physics II OR PHYS-SHU 93 Foundations of Physics II Honors, and CHEM-SHU 126 Foundations of Chemistry II. Fulfillment: Chemistry additional required course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 652 Physical Chemistry: Thermodynamics and Kinetics (4 Credits)*Typically offered occasionally*

Develops the close connection between the microscopic world of quantum mechanics and the macroscopic world of thermodynamics. Topics include properties of gases, kinetics, elementary statistical thermodynamics, and thermodynamics of single and multicomponent systems. Prerequisite: CHEM-SHU 126 Foundations of Chemistry II and PHYS-SHU 12 General Physics II or PHYS-SHU 93 Found of Physics II Honors. Multivariable Calculus is strongly recommended. Linear Algebra and Differential Equations is also recommended Fulfillment: Chemistry Major Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 881 Biochemistry I (4 Credits)*Typically offered Fall*

This course offers deeper and more complete treatments of the chemistry of living cells and biological chemistry. Topics include structure and function of proteins, lipids, carbohydrates, and nucleic acids; enzyme structure, mechanism and regulation of enzyme activity, and membrane structure and transport; mechanisms of cellular processes and cellular physiology, including ion channels and pumps, cell motility, and the immune response. Prerequisite: CHEM-SHU 226. Fulfillment: Biology Major Electives; Chemistry Major Electives; Neural Science Major Approved upper-level Biology courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Chemistry Elective
- SB Crse Attr: NYU Shanghai: Neural Science Approved upper-level Biology Course

CHEM-SHU 882 Biochemistry II (4 Credits)*Typically offered Spring*

This is an advanced-level course designed to provide a firm scientific foundation in biochemistry in one semester. The course will help students to obtain interdisciplinary knowledge outside the textbook. Biochemistry 2 emphasizes analysis of basic metabolic pathways, including glycolysis, tumor metabolism, neurodegeneration, and gene regulation, as well as mechanisms of metabolic regulation and integration. Prerequisite: CHEM-SHU 226. Fulfillment: Biology Major Electives; Chemistry Major Electives; Neural Science Major Approved upper-level Biology courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Chemistry Elective
- SB Crse Attr: NYU Shanghai: Neural Science Approved upper-level Biology Course

CHEM-SHU 997 Independent Study – Chemistry (2-4 Credits)*Typically offered Fall and Spring*

Prerequisite: Foundations of Science I-III (or Physics I&II, Foundations of Chemistry I&II, Foundations of Biology I&II), and a minimum GPA of 3.0 overall and in all science and mathematics courses required for the major, permission of a chemistry faculty member (at NYU-Shanghai, NYU-Abu Dhabi, or NYU-New York) who will act as a sponsor and mentor, and approval of the Director of Undergraduate Studies (DUS) in Chemistry. The faculty mentor must be selected in consultation with the DUS. Offered in the Fall, Spring or Summer. 2 to 4 points per term for a maximum of 4 points. This course aims at engaging students in research. It is designed to offer students an opportunity to observe chemistry research up close and gain hands-on research experience by working as a member in an active research team. Independent Study I and II can be done with the same supervisor or two different supervisors. No lectures will be given. Student researchers are expected to attend and actively participate in lab/supervision meetings. A Proposal for Independent Study form must be filled out, signed by the DUS, and submitted to the Registrar. Requires a written report on the research to be evaluated by the faculty sponsor, with a copy submitted to the DUS and a copy to the Dean of Arts & Sciences. Department consent is needed. Fulfillment: Chemistry Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Chemistry Elective

CHEM-SHU 998 Integrated Science Capstone (4 Credits)*Typically offered Fall*

This course will provide students with a completion of their undergraduate science education by making use of the skills and knowledge they acquired over the course of completing their major to apply to scientific problems across disciplines. Students will be paired with a faculty mentor to engage either in Independent Research or Literature Review to address a scientific question of the student's design, culminating in a written report. Students are encouraged to work with faculty mentors outside of their own field. Open only to Biology, Chemistry, and Physics majors in the senior year. Prerequisite: senior students with chemistry primary major. Fulfillment: Chemistry required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Chemistry Required

CHEM-SHU 999 Chemistry Undergraduate Research Thesis (2-4 Credits)*Typically offered Spring*

Prerequisites: Independent Study (CHEM-SHU 997 or 998), a minimum GPA of 3.65 overall, a minimum GPA of 3.65 in all science and mathematics courses required for the major, and permission of a faculty sponsor and the Dean of Arts & Sciences. Open to Chemistry majors only. The faculty mentor must be selected in consultation with the Dean of Arts & Sciences. May not be used for the major in chemistry. Offered in the fall, spring, and summer. 2 points. For chemistry majors who have completed at least one semester of laboratory research (CHEM-SHU 997 or 998) and are able to expand this work into a thesis. Requires writing a Thesis (i.e., a full literature search of the subject and a formal written report on the research in publication form), which is defended in front of a committee of three faculty (which includes the faculty sponsor), chosen by the student in consultation with the faculty mentor. (The defense may be a brief oral presentation followed by a question-and-answer session.) The Thesis and defense must be evaluated by the committee, with the cover page of the thesis signed by all committee members, with a copy of the Thesis submitted to the Dean of Arts & Sciences. (It is recommended that the student meet with the faculty committee at least once mid-semester to evaluate and guide the student's progress on the thesis work.) Department consent is needed.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Chinese Language (CHIN-SHU)

CHIN-SHU 10 Chinese Bridge Online-Elementary Level (0 Credits)*Typically offered Fall and Spring*

This Chinese Bridge online- Elementary level is designed for NYU Shanghai students who are currently studying away. This ten-week non-credit internet-based Chinese language study will provide language materials based on Elementary level vocabulary and grammars to help students to review and maintain the language proficiency and help prepare students for the intermediate level study while being absent from the target language environment. This online study will be held twice a week, with one recorded video and one live session online. By completing the study with the Chinese Bridge Online, students will not only review the most of the important vocabulary and grammars from Elementary level in new topics, but also have opportunity to learn new useful words and phrases in authentic context and therefore students will be ready for moving on to next Intermediate level. Prerequisite: None. Fulfillment: General Elective.

Grading: Non-Graded**Repeatable for additional credit:** Yes**CHIN-SHU 20 Chinese Bridge Online-Intermediate level (0 Credits)***Typically offered Fall and Spring*

This Chinese Bridge Online-Intermediate level is designed for NYU Shanghai students who are currently studying away. Students who have finished Intermediate Chinese II or Advanced Chinese I are all welcomed to enroll. This ten-week non-credit internet-based online study will provide language materials based on Intermediate level topics, vocabulary and grammars to help students to review and maintain the language proficiency while being absent from the target language environment. In addition, this online study will cover part of HSK level 4 vocabulary and others that are needed for preparation of Advanced level Chinese. This online study will be held twice a week, with one recorded class and one live session online (students can choose one from the two live sessions offered per week to take part it). By successfully completing this level of Chinese Bridge Online immediately before the semester you intend to enroll in Advanced Chinese I in Shanghai, students will receive a recommendation from the instructor to be exempted from the placement test to pursue advanced level courses. Prerequisite: None. Fulfillment: General Elective.

Grading: Non-Graded**Repeatable for additional credit:** Yes**CHIN-SHU 101 Elementary Chinese I (4 Credits)***Typically offered Fall, Spring, and Summer terms*

This course is the first part of a one-year elementary-level Chinese course designed for students who have no or almost no knowledge of Mandarin Chinese. It is designed to develop language skills in listening, speaking, reading, and writing as it relates to everyday life situations. The objectives of the course are: (1) to master the Chinese phonetic system (pinyin and tones) with satisfactory pronunciation; (2) to understand the construction of commonly used Chinese Characters (both simplified and traditional) and learn to write them correctly; (3) to understand and use correctly basic Chinese grammar and sentence structures; (4) to build up essential vocabulary; (5) to read and write level appropriate passages (100-150 characters long); and (6) to become acquainted with aspects of Chinese culture and society related to the course materials. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

CHIN-SHU 101S Elementary Chinese I - FoS1 (2 Credits)*Typically offered Fall*

This course is a specially-designed 2-credit elementary-level Chinese course for students enrolled in Foundations of Science who have no or almost no knowledge of Mandarin Chinese. It covers the first half of the 4-credit Elementary I course and is designed to develop language skills in listening, speaking, reading, and writing as it relates to everyday life situations. Prerequisite: None. (Special for freshman students enrolled in Foundation of Science) Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 101S2 Elementary Chinese I - FoS 2 (2 Credits)***Typically offered Spring*

This course is the second half of a specially-designed 2-credit elementary-level Chinese course for students enrolled in Foundations of Science who have no or almost no knowledge of Mandarin Chinese. It covers the latter half of the 4-credit Elementary I course and is designed to develop language skills in listening, speaking, reading, and writing as it relates to everyday life situations. Prerequisite: Successful completion of first half. (CHIN-SHU 102S1) Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 102 Elementary Chinese II (4 Credits)***Typically offered Fall, Spring, and Summer terms*

This course is the second part of a one-year elementary-level Chinese course designed for students who have completed NYU-SH's Elementary Chinese I or equivalent. It is designed to reinforce and further develop language skills in listening, speaking, reading, and writing as it relates to everyday life situations. The objectives of the course are: (1) to continue mastering the Chinese phonetic system (pinyin and tones); (2) to become further familiarized with the construction of commonly used Chinese Characters (both simplified and traditional); (3) to understand and use correctly basic Chinese grammar and sentence structures; (4) to continue building up essential vocabulary; (5) to read and write level appropriate passages (150-200 characters long); and (6) to become acquainted with aspects of Chinese culture and society related to the course materials. Prerequisite: CHIN-SHU 101 Elementary Chinese I or CHIN-SHU 101S2 Elementary Chinese I - FoS 2. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 102S Elementary Chinese II FoS (2 Credits)***Typically offered Fall*

This specially-offered course for students enrolled in Foundations of Science is the first half of the regular Elementary Chinese II course, designed for students who have completed NYU-SH's Elementary Chinese I or equivalent. It is designed to reinforce and further develop language skills in listening, speaking, reading, and writing as it relates to everyday life situations. Prerequisite CHIN-SHU 101 or 101S2. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 102S2 Elementary Chinese II FoS 2 (2 Credits)***Typically offered Spring*

This specially-offered course for students enrolled in Foundations of Science is the second half of the regular Elementary Chinese II course, designed for students who have completed the first half of NYU-SH's Elementary Chinese II for students in FoS. It is designed to reinforce and further develop language skills in listening, speaking, reading, and writing as it relates to everyday life situations. Prerequisite: Successful completion of first half. (CHIN-SHU 102S1)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 111 Elementary Chinese for Advanced Beginners (4 Credits)***Typically offered Fall, Spring, and Summer terms*

This course is intended for students who can converse in Mandarin Chinese about matters related to everyday life situations but cannot read and write at the same level. This includes students who were raised in a non-Chinese speaking country but in a home where the Mandarin Chinese dialect was spoken, and/or students who have acquired a certain level of Mandarin Chinese language proficiency (primarily speaking and listening) by living or working in a Chinese speaking country/region for an extended time. Though speaking and listening will be an integral part of the course, the major focus will be on developing students' competence in reading and writing. The objectives of the course are: 1) to master the Chinese phonetic system (pinyin and tones) with satisfactory pronunciation; 2) to understand the construction of commonly used Chinese Characters (both simplified and traditional) and write them correctly; 3) to build up essential vocabulary needed to read and write about topics covered in the textbook; 4) to understand and use correctly basic Chinese grammar and sentence structures; 5) to comprehend level appropriate passages and to be able to perform simple sentence analysis; 6) to write level appropriate essays (250-300 characters long) with grammatical, accuracy as well as cohesion and coherence; 7) to become acquainted with and be able to discuss in speech and writing aspects of Chinese culture and society related to the course materials. Prerequisite: None. This course is followed by Intermediate for Advanced Beginners. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 121 Chinese Immersion Program: Elementary I (4 Credits)***Typically offered Summer term*

The Elementary Chinese offered at the Immersion Summer Program at NYU Shanghai offers approximately 144 class-hours in total, equivalent to two semesters of Chinese language study (CHIN-SHU 101 & 102) during the regular academic year within the NYU system. Through this course, students will learn to communicate using sentence-level language, ask and answer questions about learned material, and handle simple daily interactions. Instructors will guide students through mastering the Pinyin system of Chinese Romanization, acquiring basic grammatical structures, learning to read and write Chinese characters, and engaging in basic yet effective interactions with Chinese speakers on daily life topics covered in class. Department consent required. Co-requisite: CHIN-SHU 122 Chinese Immersion Program: Elementary II Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

CHIN-SHU 122 Chinese Immersion Program: Elementary II (4 Credits)*Typically offered Summer term*

The Elementary Chinese offered at the Immersion Summer Program at NYU Shanghai offers approximately 144 class-hours in total, equivalent to two semesters of Chinese language study (CHIN-SHU 101 & 102) during the regular academic year within the NYU system. Through this course, students will learn to communicate using sentence-level language, ask and answer questions about learned material, and handle simple daily interactions. Instructors will guide students through mastering the Pinyin system of Chinese Romanization, acquiring basic grammatical structures, learning to read and write Chinese characters, and engaging in basic yet effective interactions with Chinese speakers on daily life topics covered in class. Department consent required. Co-requisite: CHIN-SHU 121 Chinese Immersion Program: Elementary I Fulfillment: general elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 150 Introductory Cantonese and Culture to Mandarin Speakers and Learners (4 Credits)**

Cantonese is a significant dialect in southern China and Chinese communities around the globe. It also has a rich history and culture. Moreover, the Greater Bay area is flourishing, creating many new opportunities as planned in the southern region of China for work and school. Learning a new major Chinese dialect is beneficial. This course is designed for students who have some basic knowledge about Cantonese and Mandarin Chinese speakers. The course aims to increase students' awareness and interest in the Cantonese dialect by teaching them the essential characteristics of Cantonese grammar, differences & similarities between Cantonese & Mandarin, sentence structure, commonly used terms for daily situational conversations, survival, and work needs systematically. Prerequisite: CHIN-SHU 101 Elementary Chinese I or native Chinese speaker Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 201 Intermediate Chinese I (4 Credits)***Typically offered Fall, Spring, and Summer terms*

This course is the first part of a one-year intermediate-level Chinese course designed for students who have completed NYU-SH's Elementary Chinese II or equivalent. It is designed to consolidate and develop overall aural-oral proficiency. Objectives are: (1) to be able to obtain information from more extended conversation; (2) to express and expound on, in relative length, feelings and opinions on common topics; (3) to develop vocabulary needed to discuss common topics and begin learning to decipher meaning of compound words; (4) to develop reading comprehension of more extended narrative and expository passages; (5) to write, in relative length (200-250 characters long), personal narratives, informational narratives, comparison and discussion of viewpoints with level-appropriate vocabulary and grammatical accuracy, as well as basic syntactical cohesion; (6) to continue being acquainted with aspects of Chinese culture and society related to the course materials. Prerequisite CHIN-SHU 102. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 201A Intermediate Chinese I - Accelerated (4 Credits)***Typically offered Fall and Spring*

This accelerated course is the first part of a one-semester intermediate-level Chinese course designed for students who have completed NYU-SH's Elementary Chinese II or equivalent. It is designed to consolidate and develop overall aural-oral proficiency. Objectives are: (1) to be able to obtain information from more extended conversation; (2) to express and expound on, in relative length, feelings and opinions on common topics; (3) to develop vocabulary needed to discuss common topics and begin learning to decipher meaning of compound words; (4) to develop reading comprehension of more extended narrative and expository passages; (5) to write, in relative length (200-250 characters long), personal narratives, informational narratives, comparison and discussion of viewpoints with level-appropriate vocabulary and grammatical accuracy, as well as basic syntactical cohesion; (6) to continue being acquainted with aspects of Chinese culture and society related to the course materials. Prerequisite CHIN-SHU 102 or 102A or placement; Co-requisite: CHIN-SHU 202A. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 202 Intermediate Chinese II (4 Credits)***Typically offered Fall, Spring, and Summer terms*

This course is the second part of a one-year intermediate-level Chinese course designed for students who have completed NYU-SH's Intermediate Chinese I or equivalent. It is designed to continue consolidating and developing overall aural-oral proficiency, gradually focusing more on semi-formal or formal linguistic expressions. Objectives are: (1) to further develop competence in obtaining information from more extended conversation; (2) to express and expound on, in more extended length, feelings and opinions on socio-cultural topics; (3) to develop more specialized vocabulary needed to discuss sociocultural topics; (4) to improve students' ability to decipher meaning of compound words; (5) to further develop reading comprehension of extended narrative, expository and simple argumentative passages; (6) to learn to solve simple syntactical problems independently; (7) to write, in relative length (250-300) characters long) informational narratives, expository and simple argumentative passages with level-appropriate vocabulary and grammatical accuracy, as well as basic syntactical cohesion; and (8) to continue being acquainted with aspects of Chinese culture and society related to the course materials. Prerequisite CHIN-SHU 201. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 202A Intermediate Chinese II - Accelerated (4 Credits)*Typically offered Fall and Spring*

This accelerated course is the second part of a one-semester intermediate-level Chinese course designed for students who have completed NYU-SH's Intermediate Chinese I or equivalent. It is designed to continue consolidating and developing overall aural-oral proficiency, gradually focusing more on semi-formal or formal linguistic expressions. Objectives are: (1) to further develop competence in obtaining information from more extended conversation; (2) to express and expound on, in more extended length, feelings and opinions on socio-cultural topics; (3) to develop more specialized vocabulary needed to discuss sociocultural topics; (4) to improve students' ability to decipher meaning of compound words; (5) to further develop reading comprehension of extended narrative, expository and simple argumentative passages; (6) to learn to solve simple syntactical problems independently; (7) to write, in relative length (250-300) characters long) informational narratives, expository and simple argumentative passages with level-appropriate vocabulary and grammatical accuracy, as well as basic syntactical cohesion; and (8) to continue being acquainted with aspects of Chinese culture and society related to the course materials. Co-requisite CHIN-SHU 201A. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 203 HSK Preparation for Intermediate Chinese II (2 Credits)*Typically offered Fall and Spring*

HSK Preparation course is designed for students who co-enroll Intermediate Chinese II. It aims to supplement that course by providing targeted vocabulary, relevant grammatical structures, and test-taking strategies that are specific to the HSK exam. Students in this course will also further develop their language skills in listening, reading, and writing, expand their vocabulary, improve their grammatical accuracy, enhance their ability to create with the language when talking about familiar topics related to their daily life, and also gain more concrete knowledge of Chinese customs and cultures. This course also addresses common mistakes made by Chinese language learners and strategies for how to avoid and self-correct them. Students will hone their test-taking skills and will learn valuable strategies for excelling at the HSK. Co-requisite: CHIN-SHU 202, CHIN-SHU 202A, or CHIN-SHU 211 Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 204 Chinese Characters (2 Credits)***Typically offered every year*

This is a 2-credit 200 level intermediate Chinese course aiming to help students master the skills of reading and handwriting Chinese Characters, gain relevant knowledge of the simplified Chinese characters writing system, and understand the culture behind Chinese characters. Through the learning and intensive practice of the Chinese strokes, radicals, components, characters, and culture, this course also aims to improve students' ability to recognize, analyze, appreciate, and handwrite Chinese characters; and improve their abilities of observing and appreciating Chinese characters and the related culture; reinforce the vocabulary and the structures of Elementary and Intermediate levels; to encourage their self-reflection on Chinese characters learning, and help them to have a better and stronger foundation for future learning. In this course, students will be engaged in various in-class activities, field trips, and presentations. For in-class activities, they will build Chinese characters with Lego, work with peers to complete information-gap tasks, draw characters' mind maps, and write calligraphy on Century Avenue with brushes, etc. During field trips, students will appreciate the work pieces of Chinese Calligraphy and observe/examine authentic materials that refer to Chinese characters in Galleries. Students will give several types of : They will tell stories about Chinese characters and the culture behind them; they will also present the connection of the pronunciation and meaning of each Chinese character. By participating in various activities, listening and speaking skills will be improved in addition to the emphasis on reading and writing skills. Prerequisite: CHIN-SHU 102 or the equivalent. Anti-requisite: Students who have completed CHIN-SHU 202 or the equivalent (CHIN-SHU 211, CHIN-SHU 202A) are not eligible. Any student enrolled in a higher class isn't eligible. Fulfillment: General Electives

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 211 Intermediate Chinese for Advanced Beginners (4 Credits)***Typically offered Fall and Spring*

This course is designed for students with intermediate level Mandarin speaking proficiency who can understand and speak, with near-standard pronunciation and without major grammatical errors, conversational Chinese related to daily life situations and simple sociocultural topics. The objectives are: 1) to be able to obtain information from extended written passages; 2) to both express and expound on, in relative length, feelings and opinions on common social and cultural topics; 3) to expand vocabulary and learn to decipher the meaning of compound words; 4) to develop reading comprehension of extended expository and simple argumentative passages; 5) to solve non-complex textual problems with the aid of dictionaries; 6) to write in relative length personal narratives, informational narratives, comparison and discussion of viewpoints with level appropriate vocabulary and grammatical accuracy, as well as syntactical cohesion; 7) to continue to become acquainted with aspects of Chinese culture and society related to the course materials. Prerequisite CHIN-SHU 111 Elementary Chinese for Advanced Beginners. This course is followed by Advanced Chinese I. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 221 Chinese Immersion Program: Intermediate I (4 Credits)*Typically offered Fall and Spring*

For the first time ever, NYU Shanghai is delighted to offer the new Chinese Language Immersion program during Summer 2017. Students can enroll in the program and complete Intermediate I and Intermediate II level, or Advanced I and Advanced II level. Students must already be placed at an Intermediate I or Advanced I level. The NYU Shanghai Chinese Language Program is a 9 week summer program intended to enable students who are serious about studying Chinese language in a total immersion environment to cover a semester's worth of material and to earn four NYU Shanghai credits. This rigorous, demanding, and rewarding language program allows students to have first-hand experience in using Chinese in real world situations as well as studying and practicing it in the classroom. To ensure more effective teaching and learning, classes are capped at 10 students. In the afternoons during weekdays, students can participate in extracurricular activities such as Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules. For more details, please visit the Chinese Immersion Program website. Shanghai students will not need to formally apply but an interview with a Chinese language instructor and selection to participate will be required. There are two tracks, Intermediate or Advanced. Co-requisite: CHIN-SHU 222. Fulfillment: Core Curriculum-Chinese Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 222 Chinese Immersion Program: Intermediate II (4 Credits)*Typically offered Fall, Spring, and Summer terms*

For the first time ever, NYU Shanghai is delighted to offer the new Chinese Language Immersion program during Summer 2017. Students can enroll in the program and complete Intermediate I and Intermediate II level, or Advanced I and Advanced II level. Students must already be placed at an Intermediate I or Advanced I level. The NYU Shanghai Chinese Language Program is a 9 week summer program intended to enable students who are serious about studying Chinese language in a total immersion environment to cover a semester's worth of material and to earn four NYU Shanghai credits. This rigorous, demanding, and rewarding language program allows students to have first-hand experience in using Chinese in real world situations as well as studying and practicing it in the classroom. To ensure more effective teaching and learning, classes are capped at 10 students. In the afternoons during weekdays, students can participate in extracurricular activities such as Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules. For more details, please visit the Chinese Immersion Program website. Shanghai students will not need to formally apply but an interview with a Chinese language instructor and selection to participate will be required. There are two tracks, Intermediate or Advanced. Co-requisite: CHIN-SHU 221. Fulfillment: Core Curriculum-Chinese Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 301 Advanced Chinese I (4 Credits)*Typically offered Fall, Spring, and Summer terms*

This course is the first part of a one-year Advanced Chinese course designed for students who have successfully completed Intermediate Chinese II at NYU-SH, or who have at least the equivalent knowledge of Chinese upon registration. It is designed to reinforce and further improve students' overall communicative competence by incorporating semi-formal or formal usages. The objectives of the course are: (1) to learn to apply formal linguistic expressions in speaking and writing; (2) to acquire specialized vocabulary and patterns necessary for conducting formal discussions of socio-cultural topics; (3) to develop reading comprehension of texts with more advanced syntax; (4) to learn to make context-based guess about the meaning of a new word and further enhance students' ability to analyze as well as produce sentences with more complex syntactical features; (5) to learn to write expository and argumentative passages in more extended length; and (6) to learn to employ basic rhetoric devices in writing. This course is for Students with a Non-Heritage background in Chinese. This course satisfies GCS elective for Non-native Chinese speakers. Prerequisite: CHIN-SHU 202 OR equivalent. Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track Non-Native Chinese Speakers.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 301A Advanced Chinese I for Heritage Learners (4 Credits)

This course is the first part of a one-year Advanced Chinese course designed for students who have successfully completed Intermediate Chinese for Advanced Beginners at NYU-SH, or who have at least the equivalent knowledge of Chinese upon registration. It is designed to reinforce and further improve students' overall communicative competence by incorporating semi-formal or formal usages. The objectives of the course are: (1) to learn to apply formal linguistic expressions in speaking and writing; (2) to acquire specialized vocabulary and patterns necessary for conducting formal discussions of socio-cultural topics; (3) to develop reading comprehension of texts with more advanced syntax; (4) to learn to make context-based guess about the meaning of a new word and further enhance students' ability to analyze as well as produce sentences with more complex syntactical features; (5) to learn to write expository and argumentative passages in more extended length; and (6) to learn to employ basic rhetoric devices in writing. This course is for Students with a heritage background in Chinese. This course satisfies GCS elective for Non-native Chinese speakers or GCS language requirement for Advanced GCS track (non-native speakers). Prerequisite: CHIN-SHU 211 or equivalent Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track Non-Native Chinese Speakers.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 302 Advanced Chinese II (4 Credits)*Typically offered Fall, Spring, and Summer terms*

This course is the second part of a one-year Advanced Chinese course designed for students who have successfully completed Advanced Chinese I at NYU-SH, or who have the equivalent knowledge of Chinese upon registration. It is designed to reinforce and further improve students' overall communicative competence by incorporating semi-formal or formal usages. The objectives of the course are: (1) to enhance further students' oral and written communicative competence using formal linguistic expressions; (2) to expand further specialized vocabulary and patterns necessary for conducting formal discussions of socio-cultural topics relevant to today's China; (3) to improve further students' reading comprehension of texts with more advanced syntax; (4) to develop further their competence in making context-based guess about the meaning of a new word, and further enhance ability to analyze as well as produce sentences with more complex syntactical features; (5) to improve further their ability to write expository and argumentative passages in more extended length; (6) to improve their ability to effectively employ basic rhetoric devices in writing. This course is for students with a non-heritage background in Chinese. This course satisfies GCS elective for Non-native Chinese speakers or GCS language requirement for Advanced GCS track (non-native speakers). Prerequisite: CHIN-SHU 301. Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track Non-Native Chinese Speakers.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 302A Advanced Chinese II for Heritage Learners (4 Credits)

This course is the second part of a one-year Advanced Chinese course designed for students who have successfully completed Advanced Chinese I at NYU-SH, or who have the equivalent knowledge of Chinese upon registration. It is designed to reinforce and further improve students' overall communicative competence by incorporating semi-formal or formal usages. The objectives of the course are: (1) to enhance further students' oral and written communicative competence using formal linguistic expressions; (2) to expand further specialized vocabulary and patterns necessary for conducting formal discussions of socio-cultural topics relevant to today's China; (3) to improve further students' reading comprehension of texts with more advanced syntax; (4) to develop further their competence in making context-based guess about the meaning of a new word, and further enhance ability to analyze as well as produce sentences with more complex syntactical features; (5) to improve further their ability to write expository and argumentative passages in more extended length; (6) to improve their ability to effectively employ basic rhetoric devices in writing. This course is for students with a heritage background in Chinese. This course satisfies GCS elective for Non-native Chinese speakers or GCS language requirement for Advanced GCS track (non-native speakers). Prerequisite: CHIN-SHU 301A

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 306 Performing Chinese Drama for Improved Oral Proficiency (2 Credits)***Typically offered every year*

This course is designed for students who have completed the Intermediate Chinese II and who want to improve their oral proficiency and ease of expression in Chinese. Through the study and performance of Chinese dramas, students will improve their pronunciation (including word and sentence tones, accent, and cadence) and expression in the three modes of communication: interpersonal, interpretive, and presentational. The course introduces three texts as the focus for study: Cao Yu's *Thunderstorm*, written in the 20th century, will introduce students to a classic example of modern Chinese drama and will allow them to explore the socio-cultural issues of that time and invite them to compare to their own. The second drama, Luo Jing's *Day-Rent Apartment*, written in the 21st century, will provide a contemporary example to help broaden students' contemporary spoken vocabulary. The final one, *Hear Her*, a scripted TV series in 2020, explores contemporary issues and concerns of women in China. The class structure will move back and forth between these texts as a form of interleaving and to focus on targeted linguistic and cultural topics. The class will involve frequent oral participation, short and extended performances, and a variety of activities to strengthen proficiency of all skills. Relevant lectures and assessment on the content and language will be included as well. Prerequisite: Intermediate Chinese II (CHIN-SHU 202) or above. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 321 Chinese Immersion Program: Advanced I (4 Credits)**

For the first time ever, NYU Shanghai is delighted to offer the new Chinese Language Immersion program during Summer 2017. Students can enroll in the program and complete Intermediate I and Intermediate II level, or Advanced I and Advanced II level. Students must already be placed at an Intermediate I or Advanced I level. The NYU Shanghai Chinese Language Program is a 9 week summer program intended to enable students who are serious about studying Chinese language in a total immersion environment to cover a semester's worth of material and to earn four NYU Shanghai credits. This rigorous, demanding, and rewarding language program allows students to have first-hand experience in using Chinese in real world situations as well as studying and practicing it in the classroom. To ensure more effective teaching and learning, classes are capped at 10 students. In the afternoons during weekdays, students can participate in extracurricular activities such as Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules. For more details, please visit the Chinese Immersion Program website. Shanghai students will not need to formally apply but an interview with a Chinese language instructor and selection to participate will be required. There are two tracks, Intermediate or Advanced. Co-requisite: CHIN-SHU 322. Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 321A Chinese Immersion Program: Advanced Chinese I for Heritage Learners (4 Credits)*Typically offered Summer term*

This course offers an initial exploration of modern China, integrating advanced grammar and vocabulary into discussions of cultural and societal issues. Aligned with ACTFL guidelines, the course aims to comprehensively enhance students' proficiency in listening, speaking, reading, and writing, with particular emphasis on communicative competence in real-life contexts. Students will also explore Chinese society, culture, and history through modern Chinese language. The course equips them with the skills necessary to deliver oral presentations and produce formal or semi-formal writing that is well-organized, culturally appropriate, and lexically rich. Department consent required. Co-requisite: CHIN-SHU 322A Chinese Immersion Program: Advanced Chinese II for Heritage Learners Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 322 Chinese Immersion Program: Advanced II (4 Credits)

For the first time ever, NYU Shanghai is delighted to offer the new Chinese Language Immersion program during Summer 2017. Students can enroll in the program and complete Intermediate I and Intermediate II level, or Advanced I and Advanced II level. Students must already be placed at an Intermediate I or Advanced I level. The NYU Shanghai Chinese Language Program is a 9 week summer program intended to enable students who are serious about studying Chinese language in a total immersion environment to cover a semester's worth of material and to earn four NYU Shanghai credits. This rigorous, demanding, and rewarding language program allows students to have first-hand experience in using Chinese in real world situations as well as studying and practicing it in the classroom. To ensure more effective teaching and learning, classes are capped at 10 students. In the afternoons during weekdays, students can participate in extracurricular activities such as Tai Chi, Chinese calligraphy, Chinese cooking, etc. Students participate in these activities based on their preferences and time schedules. For more details, please visit the Chinese Immersion Program website. Shanghai students will not need to formally apply but an interview with a Chinese language instructor and selection to participate will be required. There are two tracks, Intermediate or Advanced. Co-requisite: CHIN-SHU 321. Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 322A Chinese Immersion Program: Advanced Chinese II for Heritage Learners (4 Credits)*Typically offered Summer term*

This course offers an initial exploration of modern China, integrating advanced grammar and vocabulary into discussions of cultural and societal issues. Aligned with ACTFL guidelines, the course aims to comprehensively enhance students' proficiency in listening, speaking, reading, and writing, with particular emphasis on communicative competence in real-life contexts. Students will also explore Chinese society, culture, and history through modern Chinese language. The course equips them with the skills necessary to deliver oral presentations and produce formal or semi-formal writing that is well-organized, culturally appropriate, and lexically rich. Department consent required. Co-requisite: CHIN-SHU 321A Chinese Immersion Program: Advanced Chinese I for Heritage Learners Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 401 Classical Chinese for Advanced Mandarin Learners (4 Credits)*Typically offered Fall*

As a post-advanced Chinese language course that offers an introduction to Classical Chinese, this course has two focuses. The first focus will be to introduce students the basic vocabulary, grammar, and syntax of Classical Chinese through reading authentic texts selected from the classics including the Analects##, the Mencius##, the Daode Jing##, the Zuo Zhuan## and the Zhanguo Ce ###. The other focus of this course will be to further enhance students' Modern Chinese proficiency and cultural fluency. Students will be able to translate, describe and analyze Classical Chinese syntax and grammar in Modern Chinese, and also to discuss the philosophical value and cultural significance of the selected Classical Chinese texts in an intellectually sophisticated manner in Modern Chinese. Prerequisite: CHIN-SHU 302 or placed out of Advanced Chinese II. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 403 Interpreting Modern China: Reading the Era of 1919-1949 (4 Credits)*Typically offered Fall and Spring*

Interpreting Modern China-Reading the era of 1919-1949 is a Chinese language course at the fourth-year level. It is designed for students who have satisfactorily completed Advanced Chinese II at NYU or the equivalent elsewhere. The course aims at further developing students' Chinese proficiency through studying authentic materials and enhancing their understanding of various aspects of Chinese culture impacted by a specific historical period of dramatic changes. The materials selected contain rich cultural connotations and were written in different language styles during the 1910s-1940s by well-known Chinese writers in the literature genre of mainly prose writing. Prerequisite for CHIN-SHU 403 is CHIN-SHU 302 OR EAST-UA 206 OR EAST-UA 9206 OR CHINL-UH 3002 OR place put of advanced Chinese II. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 404 Readings in contemporary Chinese Culture (4 Credits)*Typically offered Fall and Spring*

Readings in Contemporary Chinese Culture is a Chinese language course at the fourth-year level. The course is designed to enhance students' Chinese proficiency through reading authentic materials rich in cultural connotations and stresses primarily reading and writing and to introduce students to important authors and themes from the post-1949 period. Readings include selected authentic essays written by famous authors in Chinese literary history, touching on various aspects of Chinese culture impacted by a specific historical period of dramatic changes beginning in 1949. The materials selected are mainly centered on the on-going challenges in Chinese family relations, traditional Chinese views on learning, the aesthetic appreciation of Chinese classical literati gardens, cross-cultural comparison, the self-criticism on Chinese culture, etc.

Prerequisites: CHIN-SHU 403 Interpreting Modern China or CHIN-SHU 302 Advanced Chinese II or place out of Advanced Chinese 2. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 405 Reading Chinese Newspapers (4 Credits)*Typically offered Fall*

This 4-credited course is a post-advanced Chinese language course, which meets twice a week, 75 minutes for each meeting and is designed for students who have completed Advanced Chinese II (CHIN-SHU 302, or EAST-UA 206) or the equivalent. This course, through intensive and extensive readings of authentic materials selected from major Chinese newspapers and periodicals in China and abroad and robust in and out-of-class exercises and assignments, intends to help students further enhance their language skills with special focus on reading and writing competence, further enrich their knowledge about China society and Chinese culture, and further improve their abilities in conducting in-depth analysis, discussion, debate, comparison, contrast and conclusion orally and in written mode in Chinese language. The articles will be selected from the latest issues in newspapers and periodicals with topics ranging from culture inheritance, social entertainment to economics, technology, new lifestyle, etc., which provide different perspectives for students to observe and study phenomena (including their origins and evolutions) in modern Chinese society and Chinese culture. The course also focuses on language learning, aiming at helping students accumulate more formal written-style vocabulary and getting acquaintance with the modes, structures and characteristics of Chinese formal news reports. Pre-requisites: Advanced Chinese II or the equivalent Fulfillment: Core Curriculum Language; GCS Major Requirement Language Courses For Advanced GCS Track Non-Native Chinese Speakers; Chinese Minor and the Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 406 Shanghai Architecture for Chinese Language Learners (4 Credits)*Typically offered Spring*

Shanghai, well-known for its "Global Architecture Museum," is home to historical buildings from different time periods and a variety of global architectural styles. This course is designed for students who are interested in advancing their Chinese reading, writing and conversational skills and who want to gain a deeper understanding of the city of Shanghai, its people, history, culture, and future through the rich lens of Shanghai architecture. Course materials are particularly selected to expand and reinforce students' Chinese vocabulary and grammar use, as well as skills in different styles of composition, conversation and presentation. Students will also get a chance to visit local residences and private buildings through several organized field trips. This course is conducted entirely in Chinese. Prerequisite: Advanced Chinese II or the equivalent Fulfillment: Post-advanced Chinese elective; Chinese Minor and the Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)

CHIN-SHU 408 Introduction to Chinese Phonetics (4 Credits)*Typically offered every year*

This is a 4-credit 400 level post-advanced Chinese course aiming to let students gain the vocabulary of the Chinese phonetic vocabulary and basic knowledge of standard Mandarin sound system. Through the learning and intensive practice of the Chinese syllables, tones, stresses, intonations and rhythms, this course also aims to improve the course participants' Chinese pronunciation and speaking fluency. Students will write and sing Chinese songs and raps, recite and perform classical Chinese poems, give real speeches, and perform dramas and plays. Each participant will receive an initial pronunciation diagnosis and individual feedback on their pronunciation progress throughout the semester. Prerequisite: Advanced Chinese II (or equivalent) Fulfillment: This would count toward the current Chinese minor and also toward the proposed Chinese Language and Literature Major (for L2 learners)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 409 Spoken Contemporary Chinese (4 Credits)*Typically offered every year*

This course is a high-level communicative competence training course that proposes to improve students' proficiency, accuracy, and ease in oral expressions so that they can use Chinese language in various fields, e.g. narration, negotiation, public engagement, academic speech, and social media. In addition to the in-class lectures and instructions, students working in this course will complete four projects throughout the semester. Among these four projects, at least one of them is a community-engaged learning project. Through these projects, students will apply their communication skills in authentic situations, translate classroom knowledge into real-world experience, and deepen their understanding of contemporary Chinese society and culture through interpersonal interactions. Although this course is specified in improving students' speaking competence, it will also enhance their integrated language skills and intercultural and interpersonal communication competence through various classroom tasks and projects. Prerequisite: Advanced Chinese II or the equivalent Fulfillment: Chinese Minor and the Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 410 Written Chinese Discourse (4 Credits)***Typically offered Fall and Spring*

This is a 4-credit Chinese language course meeting twice a week, 75-minutes per session. It aims to further develop students' writing competence in Chinese language. It proposes to improve students' proficiency, accuracy and ease in written expression so that they can use Chinese language in more professional fields and real life situations in a variety of contexts and registers. They will read contemporary texts from various fields and refine their skills in narration, description, and argumentative writing. They will also develop their skills in practical writing, like emails, reports, film reviews and application letters. The course will adopt the process writing approach, therefore, students will hone their writing skills through writing exercises in and out of class. The majority of the high-stakes assessments will be typewritten. The course also includes a number of handwritten tasks that students complete to reinforce their knowledge of production of characters. Although this course is targeted at improving students' writing competence, it will also enhance their integrated language skills through various classroom tasks, discussions, and learning activities. Prerequisite: Advanced Chinese II (CHIN-SHU 302) or equivalent or by placement exam Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 415 Introduction to Contemporary China I (4 Credits)*Typically offered occasionally*

This course is a post advanced Chinese language course and is designed for those students who have completed Advanced Chinese II at NYU-SH or NYU (or the equivalent) and intend to further enhance their language skills and knowledge about different aspects of China. It's designed to help students to know the hot issues taking place in modern China and improve their ability to understand the cultural components and thinking modes behind the issues and their ability in expressing their opinions and carrying out discussions and debates on these issues in Chinese language. This course integrates the language learning with the study of social issues of modern China, and covers the authentic materials with topics ranging from China human geography, Chinese political system, Chinese economy, Chinese education, to Chinese science and technology. Prerequisite: CHIN-SHU 302 or place out of Advance Chinese 2. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 416 Introduction to Contemporary China II (4 Credits)*Typically offered occasionally*

This course is a post advanced Chinese language course and is designed for those students who have completed Advanced Chinese II at NYU-SH or NYU (or the equivalent) and intend to further enhance their language skills and knowledge about different aspects of China. It's designed to help students to know the hot issues taking place in modern China and improve their ability to understand the cultural components and thinking modes behind the issues and their ability in expressing their opinions and carrying out discussions and debates on these issues in Chinese language. This course integrates the language learning with the study of social issues of modern China, and covers the authentic materials with topics ranging from Chinese science and technology, Chinese beliefs and religions, Chinese marriage, environment protection, Chinese media to Chinese floating population. Prerequisite: CHIN-SHU 302 Advance Chinese 2 or place out of Advance Chinese 2. Fulfillment: Core Curriculum Language.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 421 Chinese Immersion Program: Post-Advanced Chinese I (4 Credits)*Typically offered Summer term*

CHIN-SHU 421 is the introductory course in a two-part series tailored for both non-heritage and heritage learners who are continuing from Advanced Chinese. This course advances students' proficiency in the Chinese language and deepens their understanding of contemporary Chinese society. In this initial part, students will engage with a variety of authentic materials, including newspaper articles, scholarly essays, and multimedia resources. They will explore major societal themes such as education, gender issues, family dynamics, and new economic trends in China. This immersive approach aims to refine students' formal written and spoken Chinese, setting a strong foundation for specialized post-advanced studies. Credits earned can apply toward the Chinese minor at NYU Shanghai. Prerequisite: CHIN-SHU 302, CHIN-SHU 301A, or with the instructor's permission. Fulfillment: GCS major advanced track Language requirement for Non-Native Chinese Speakers; Chinese minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)

CHIN-SHU 422 Chinese Immersion Program: Post-Advanced Chinese II (4 Credits)*Typically offered Summer term*

Building on the foundation set in CHIN-SHU 421, CHIN-SHU 422 continues the exploration of contemporary Chinese society with an enhanced focus on technological innovations, political dynamics, language developments, and modern literature. This course part involves studying diverse and sophisticated materials like modern Chinese literary works alongside scholarly and media texts, providing a comprehensive view of the changes and continuities in Chinese society. Through this advanced exploration, students will further their ability to articulate complex ideas in both written and spoken Chinese, preparing them for more specialized academic and professional pursuits. Credits earned can apply toward the Chinese minor at NYU Shanghai. Prerequisite: CHIN-SHU 421 or with the instructor's permission. Fulfillment: GCS major advanced track Language requirement for Non-Native Chinese Speakers; Chinese minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)

CHIN-SHU 429 Chinese Business and Finance -- A Bilingual Introduction (4 Credits)*Typically offered occasionally*

The course is aimed to (1) enhance students' professional Chinese-English bilingual skills in the business context and (2) promote their understanding of the macro and micro business environment and culture in China and the larger world. Adopting a case-study oriented approach that emphasizes task-based language teaching, the course, by concentrating on five real-life cases from the business world, provides a bilingual introduction to such concepts and phenomenon as business globalization, international expansion and integration, mergers and acquisition, branding strategies, impact of "Made in China" on the Chinese global economy, antidumping, and government relations, etc. Along with the case study, some of the relevant Finance, Consulting, Marketing and Accounting knowledge will also be introduced bilingually. By the end of the semester, students are expected to be equipped with enhanced Chinese and English skills to function more comfortably and confidently in the transition toward pursuing a Business-Finance major as well as preparing for future internships or job interviews. This course will be mainly conducted in Chinese with a thorough introduction of Business and Finance terminologies and concepts in BOTH Chinese and English. Instructor Consent Required Fulfillment: GCS The Politics, Economy, and Environment of China

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China

CHIN-SHU 430 Discovering Contemporary China Through Documentary Films (4 Credits)

This course is a 4-credit post-advanced course open to students who have completed Advanced Chinese II or the equivalent. This course is designed to increase oral and written proficiency, with a focus on relevant vocabulary and grammatical structures used to discuss contemporary issues, through the exploration of documentary film. Through in-class discussions and debates, film transcriptions, as well as external field trips and community-engaged projects, the course will enhance students' understanding about the latest and most pressing social issues in contemporary China through a series of insightful and in-depth Chinese documentaries as case studies, as well as meaningful interactions in the target language. The course intends to provide a multi-dimensional learning experience where students use language in context to understand and explore contemporary issues. Prerequisite: Advanced Chinese II or place out of Advanced Chinese 2. Fulfillment: Core Curriculum Language; Chinese Minor and the Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 450 Chinese for Business (4 Credits)

Typically offered every year

This is a 4-credit 400 level post-advanced Chinese course that provides students with linguistic and intercultural skills and strategies to thrive in Chinese business settings. The main vehicle of exploration will be Business Chinese for Success: Real Cases from Real Companies. This textbook offers students a wide range of real case studies of the localization of international companies in China and business models of successful Chinese companies and brands, such as "Haidi Lao Hotpot", "Baidu", etc, allowing students to gain a deeper understanding of effective business models while developing the linguistic and cultural tools that will better prepare them for a professional setting. Through the learning and discussion of real business cases in the Chinese language, this course also aims to improve the course participants' reading and speaking proficiency. Students will gain hands-on experience in composing emails in a professional setting and adapting them to a range of recipients, writing memos and summative reports, articulating data analysis, drafting a business pitch, creating a resume or CV, and giving a professional presentation. The course participants will have opportunities to communicate with entrepreneurs outside of the university and use the language skills gained in this course in a mock business interaction. This course welcomes students from all majors, particularly those who will go on to work in a Chinese setting or in companies that conduct business with China. Prerequisite: Advanced Chinese II or equivalent. Fulfillment: GCS Advanced Track Post Advanced Chinese course; Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Glob China Stds Chinese for Adv UG Research Adv Tr

CHIN-SHU 460A Teaching Chinese Language Through Children's Storybooks (2 Credits)

Typically offered Fall

This is the first part of a two-semester, 4-credit Dean's Service Scholar course that runs for 14 weeks. The course integrates Chinese language learning and teaching with community exploration and service, to introduce students to Chinese language pedagogy and its application in a children's setting, as well as the differences in approach for a university setting. This course will be conducted in an immersive target language environment. The students will have the opportunity to work closely with a local public kindergarten on a curriculum development project on Reading to Children. Students will observe classes, analyze sample teaching videos, prepare teaching plans, conduct mock teaching, conduct field teaching and reflect on their first-hand service learning experiences in Chinese language. As a final project, students will combine the teaching skills they have learned with relevant research in order to create either 1) a teaching manual for incorporation of children's literature into listening comprehension exercises or 2) an original children's book that incorporates targeted pedagogical techniques for Chinese language learning. In the course of pursuing teaching perfection, students will improve their interpersonal skills and communication skills in the target language as well. Prerequisite: Advanced II or equivalent Fulfillment: Core Curriculum Language. Can count toward the Chinese Language Minor

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 460B Teaching Chinese Language Through Children's Storybooks (2 Credits)

Typically offered Spring

This is the second part of a two-semester, 4-credit Dean's Service Scholar course that runs for 14 weeks. The course integrates Chinese language learning and teaching with community exploration and service, to introduce students to Chinese language pedagogy and its application in a children's setting, as well as the differences in approach for a university setting. This course will be conducted in an immersive target language environment. The students will have the opportunity to work closely with a local public kindergarten on a curriculum development project on Reading to Children. Students will observe classes, analyze sample teaching videos, prepare teaching plans, conduct mock teaching, conduct field teaching and reflect on their first-hand service learning experiences in Chinese language. As a final project, students will combine the teaching skills they have learned with relevant research in order to create either 1) a teaching manual for incorporation of children's literature into listening comprehension exercises or 2) an original children's book that incorporates targeted pedagogical techniques for Chinese language learning. In the course of pursuing teaching perfection, students will improve their interpersonal skills and communication skills in the target language as well. Prerequisite: Advanced II or equivalent and CHIN-SHU 460A. Fulfillment: Core Curriculum Language. Can count toward the Chinese Language Minor.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 500 Chinese Topic Course: Contemporary Chinese Art and Fashion (4 Credits)*Typically offered Fall, Spring, and Summer terms*

This course is designed for post-advanced level students who are interested in learning about Chinese contemporary art, fashion, and culture while advancing their reading, writing, and conversational skills in Mandarin Chinese. Students will be introduced to major works of Chinese artists and fashion designers. Course materials are particularly selected to build and reinforce students' vocabulary, grammar, as well as composition and conversation skills on a variety of topics pertaining to Chinese modernism and postmodernism through conventional and new media. This course is conducted entirely in Chinese. Prerequisite: Advanced Chinese 2 or equivalent. Fulfillment: Core Curriculum Language. Can count toward Chinese minor. Can fulfill global language requirement for L1 Chinese study away students.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

CHIN-SHU 9000 Introduction to Conversational Chinese (2 Credits)*Typically offered Fall and Spring*

This two-credit language course introduces students to Chinese language and culture. It is aimed at students with no prior knowledge of Chinese. The language component of the course runs for 14 weeks and focuses on the development of competence in verbal communication and communication structures which can be used in daily life in China.

The culture component includes excursions that are closely tied to the language topics being studied. This course does NOT cover Elementary I. It is designed for students who # do not need to complete Elementary I for their major, # and/or students who have been to two other global sites. Students cannot take this class if they have already: # Passed Elementary Chinese 1 or the equivalent or higher # Are a native Chinese speaker

Note: Students enrolled in this 2-credit course must also be enrolled in a four-credit China-focused content course in order to meet the Global Programs study away language requirement. The course must be taken for a letter grade and is not open to students who place at a higher level than Elementary I Chinese. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CHIN-SHU 9002 Introduction to Conversational Chinese - 4 credits (4 Credits)***Typically offered Fall and Spring*

This four-credit language course introduces students to Chinese language and culture. It is aimed at students with no prior knowledge of Chinese. The language component of the course runs for 14 weeks and focuses on the development of competence in verbal communication and communication structures which can be used in daily life in China. The culture component includes excursions that are closely tied to the language topics being studied. Compared to the 2-credit Intro to Conversation Chinese, this 4-credit course will have a wider coverage of topics, vocabulary and grammar, more activities and field trips, and meet 4 days a week of in-class instructions over the 14 weeks. This course does NOT cover Elementary I. It is designed for students who # do not need to complete Elementary I for their major, or have already completed the language requirement for their major, # and/or students who have been to two other global sites. Students cannot take this class if they have already: # Passed Elementary Chinese 1 or the equivalent or higher # Are a native Chinese speaker Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Community-Engaged Learning (CEL-SHU)

CEL-SHU 101E Topics in Service Learning: Public Science Education in China (2 Credits)

Science classes were first introduced for primary school education in China when the subject "Nature" was changed to "Science" as part of a curriculum reform in 2001. In February 2017, China's Ministry of Education issued a new guideline for science education, requiring elementary schools to make science a compulsory subject for first-grade students. This move showed the authorities' determination to improve children's scientific literacy. Many scholars point out that studying science can help children grow curiosity and boost their abilities of innovation. Therefore, it is necessary to cultivate children's interest in science and help them better understand the relationship between nature and mankind. However, rural students or children from poor families in China continue to experience the entrenched disadvantages in curriculum, instruction and school staffing, compared with their peers. Currently, there are still many problems due to the disregard of the "deputy subjects" and the lack of resources. How can we make fundamental science education more effective? How can we engage children's interest in science subjects? How can we better use the scientific knowledge we learned to serve the community? This Deans' Service Scholars course will give NYU Shanghai students the platform to reflect on fundamental science education, participate in science curriculum design and find a way to better serve the community. The project will be conducted in two semesters. In the fall semester, Scholars will participate in weekly seminar/discussion sessions to prepare them with necessary skills for science curriculum design and effective teaching. Topics will include but are not limited to communication, teaching methodology, leadership, and child psychology and development. Scholars are also expected to do field research to identify some current obstacles and/or challenges in fundamental science education in China, and develop an after-school science series for primary school students to supplement their science education. In the spring semester, Scholars will implement what they have developed in the community service through an onsite teaching project. The teaching project will be partnered with our third-party community partner and the teaching audience will be primary school students from low-income families. No pre-reqs

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

CEL-SHU 102 Service Learning with Migrant Families in China (2 Credits)

Typically offered occasionally

This course is taught in conjunction with students' participation in a weekly service experience working with migrant children and their families. The overarching goal of service learning is the integration of service activity that meets community needs with academic material and critical reflection.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Computer Engineering (CENG-SHU)

CENG-SHU 201 Digital Logic (4 Credits)

Typically offered Fall

This module provides a rigorous introduction to topics in digital logic design. Introductory topics include: classification of digital systems, number systems and binary arithmetic, error detection and correction, and switching algebra. Combinational design analysis and synthesis topics include: logic function optimization, arithmetic units such as adders and subtractors, and control units such as decoders and multiplexers. In-depth discussions on memory elements such as various types of latches and flip-flops, finite state machine analysis and design, random access memories, FPGAs, and high-level hardware description language programming such as VHDL or Verilog. Timing hazards, both static and dynamic, programmable logic devices, PLA, PAL and FPGA will also be covered. Prerequisite: Intro to Programming or Intro to Computer Science or placement test or interaction lab. Fulfillment: Core Curriculum: Science Experimental Discovery in the Natural World Courses ; Major: CS Electives, CE Required, EE Required.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Elective
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CENG-SHU 202 Computer Architecture (4 Credits)*Typically offered Spring*

The main ambition of this course is to teach you how a modern computer works, starting from its most elementary components (transistors, resistors, capacitors) and then climbing up the ladder of abstraction to reach a high-level programming language like C and its compilation in machine code. In this excursion, we will learn (among other things) how to turn electrons into digital logic, how to make machine instructions execute faster through pipelining and prediction, and how to organize memory in hierarchies in order to make it more efficient. Since the only way to learn computer architecture is by practicing it, we will design a register transfer level (RTL) implementation of a MIPS-like processor in Verilog, and implement a simulator of the very same architecture in C. Preliminary syllabus of the course. General introduction to the course Dataflow and parallelism From silicon to transistors The digital abstraction Number systems Programming in C: basic types and control flow Programming in C: arrays, strings and functions Programming in C: pointers, structures and unions Programming in C: linked lists and beyond Programming in C: the Unix System interface Boolean logic Karnaugh maps Latches and flip-flops Finite state machines Binary and Synchronous Decision Diagrams Programming and simulating in Verilog [part I] Programming and simulating in Verilog [part II] Digital building blocks Compilation from C to MIPS Single-cycle micro-architectures Multi-cycle micro-architectures Pipelining and dependence hazards Out-of-order execution Memory hierarchies and cache Virtual memory Memory models and multiprocessor programming Equivalency: This course counts for CSCI-UA 201 Computer Systems Organization.

Prerequisite: Intro to Programming or Intro to Computer Science.

Fulfillment: Major: CS Required, CE Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required

CENG-SHU 352 Emerging Technologies for Smart Cities (4 Credits)

Nowadays, many smart cities are being developed around the world. This is an undergraduate-level course to introduce a series of emerging technologies for smart cities. This course offers students fresh materials and case studies to expand their horizon on smart cities; helps them understand the functions and identify the limitations of various emerging technologies used in the smart city; and explore a set of analysis techniques on analyzing the smart city systems. Topics involve electric vehicles, connected and autonomous vehicles, ride-sourcing services, car-sharing services, bike-sharing services, on-demand services, advanced parking management, smart traffic signals, and smart grids. Prerequisite: None. Fulfillment: Core Curriculum Science Science, Technology and Society Courses; Social Science Focus Urban Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

CENG-SHU 400 Senior Capstone Design Project I (4 Credits)*Typically offered Spring*

Prerequisite: Senior Standing.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CENG-SHU 401 Senior Capstone Design Project II (4 Credits)***Typically offered occasionally*

Prerequisite: CENG-SHU 400.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CENG-SHU 997 Computer Systems Engineering Independent Study (2-4 Credits)***Typically offered Fall and Spring*

Students majoring in computer system engineering are permitted to work on an individual basis under the supervision of a full-time faculty member in the department if they have maintained an overall GPA of 3.0 and a GPA of 3.5 in computer system engineering and have a study proposal that is approved by a computer system engineering professor. Students are expected to spend about two to three hours a week per credit on their project.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

Computer Science (CSCI-SHU)

CSCI-SHU 11 Introduction to Computer Programming (4 Credits)*Typically offered Fall and Spring*

An introduction to the fundamentals of computer programming. Students design, write, and debug computer programs. No prior knowledge of programming is assumed. Students will learn programming using Python, a general purpose, cross-platform programming language with a clear, readable syntax. Most class periods will be part lecture, part lab as you explore ideas and put them into practice. This course is suitable for students not intending in majoring in computer science as well as for students intending to major in computer science but having no programming experience. Students with previous programming experience should instead take Introduction to Computer Science. Prerequisite: Either placed into Calculus or at least a C in Pre-Calculus (shanghai portal students only) Fulfillment: Core Curriculum Requirement Algorithmic Thinking; EE Required Major Courses. Note: Students who have taken ICS in NY, Abu Dhabi, and Shanghai cannot take ICP.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required

CSCI-SHU 101 Introduction to Computer and Data Science (4 Credits)*Typically offered Fall and Spring*

This course has three goals. First, the mastering of a modern object-oriented programming language, enough to allow students to tackle real-world problems of important significance. Second, gaining an appreciation of computational thinking, a process that provides the foundations for solving real-world problems. Finally, providing an overview of the very diverse and exciting field of computer science - a field which, arguably more than any other, impacts how we work, live, and play today. Prerequisite: Introduction to Computer Programming or placement exam. Equivalency: This course counts for CSCI-UA 101. Fulfillment: Core Curriculum Requirement Algorithmic Thinking; Computer Science Major Required Courses; Computer Systems Engineering Major Required Courses; Data Science Major Foundational Courses; Electrical and Systems Engineering Major Required Major Courses; IMB optional Foundation course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Foundational
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course

CSCI-SHU 188 Introduction to Computer Music (4 Credits)*Typically offered occasionally*

Computers are used to process signals, compose music, and perform with humans. Personal computers have replaced studios full of sound recording and processing equipment, completing a revolution that began with recording and electronics. In this course, students will learn the fundamentals of digital audio, basic sound synthesis algorithms, techniques for human-computer music interaction, and machine learning algorithms for media generation. In a final project, students will demonstrate their mastery of tools and techniques through a publicly performed music composition. Prerequisites: ICP OR ICS (best to have some experience in Music, or check with the instructor before enrolling) Fulfillment: Computer Science Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 200 Topics in Human-Computer Interaction (4 Credits)*Typically offered every year*

Human-Computer Interaction (HCI) is a rapidly expanding area of research and development that has transformed the way we use computers over the past forty years. Topics in Computer Science is an advanced-level course designed to provide students with an opportunity to explore specialized areas within the field of HCI. The course covers a range of topics, each focusing on advanced concepts, emerging technologies, or specialized subfields such as mobile interaction, augmented reality, multi-touch interaction, tangible interaction, ubiquitous computing, and more. The course content is adapted to the expertise and research interests of the current instructor, ensuring a relevant and up-to-date curriculum. Throughout the course, students will delve into a specific topic within HCI, addressing both practical and theoretical aspects. Learning will be facilitated through lectures, hands-on assignments, reading materials, and discussions. Prerequisite: CSCI-SHU 101 Introduction to Computer Science Fulfillment: Computer Science elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 205 Topics in Computer Science (4 Credits)*Typically offered Fall and Spring*

Topics in Computer Science is an advanced-level course designed to provide students with the opportunity to explore specialized areas within the field of computer science. This course will cover a range of topics, including but not limited to compilers, programming languages, cybersecurity, blockchain technology, and theoretical computer science. The specific content will be tailored to the expertise and research interests of the instructor, ensuring a relevant and up-to-date curriculum. Throughout the course, students will delve into a specific topic within computer science, addressing both practical and theoretical aspects. Learning will be facilitated through lectures, hands-on assignments, reading materials, and discussions. Prerequisite: CSCI-SHU 101 Introduction to Computer and Data Science Fulfillment: Computer Science Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 210 Data Structures (4 Credits)*Typically offered Fall and Spring*

Data structures are fundamental programming constructs which organize information in computer memory to solve challenging real-world problems. Data structures such as stacks, queues, linked lists, and binary trees, therefore constitute building blocks that can be reused, extended, and combined in order to make powerful programs. This course teaches how to implement them in a high-level language, how to analyze their effect on algorithm efficiency, and how to modify them to write computer programs that solve complex problems in a most efficient way. Programming assignments. Prerequisite: ICS or A- in ICP. Equivalency: This course counts for CSCI-UA 102 Data Structures (NY). Fulfillment: CS Required, Data Science Required, CE Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Required Programming Comp Science

CSCI-SHU 213 Databases (4 Credits)*Typically offered occasionally*

The course covers modeling an application and logical database design, the relational model and relational data definition and data manipulation languages, design of relational databases and normalization theory, physical database design, query processing and optimization, transaction processing focusing on concurrency and recovery. The labs emphasize experiential learning of database systems and applications and an insight into various database management systems and query languages. Prerequisite: CSCI-SHU 210 Data Structures. Fulfillment: Computer Science Major Electives; Data Science Major Required Data Management Courses; Computer Systems Engineering elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Elective
- SB Crse Attr: NYU Shanghai: Data Science Required Data Management

CSCI-SHU 215 Operating Systems (4 Credits)*Typically offered Fall*

Covers the principles and design of operating systems. Topics include process scheduling and synchronization, deadlocks, memory management (including virtual memory), input-output, and file systems. Programming assignments. Prerequisite: CENG-SHU 202 Computer Architecture or CSCI-UA 201 Computer Systems Organization. Fulfillment: Computer Science Major Required Courses; Computer Systems Engineering Major Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Elective

CSCI-SHU 220 Algorithms (4 Credits)*Typically offered Spring*

Introduction to the study of algorithms. Presents two main themes: designing appropriate data structures and analyzing the efficiency of the algorithms that use them. Algorithms studied include sorting, searching, graph algorithms, and maintaining dynamic data structures. Homework assignments, not necessarily involving programming. Prerequisites: Data Structures AND (Discrete Math OR Linear Algebra OR Honors Linear Algebra) Fulfillment: CS Required, Data Science Data Analysis/AI.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI
- SB Crse Attr: NYU Shanghai: Data Science Required Data Analysis

CSCI-SHU 222 Introduction to Game Programming (4 Credits)*Typically offered occasionally*

A programming intensive introduction to the creation of computer games. Using mostly two-dimensional sprite-based programming, we examine and experiment with animation, physics, artificial intelligence and audio. In addition, the course explores the mathematics of transformations (both 2D and 3D) and the ways they may be represented. Prerequisite: Data Structures OR CS-UY 2134 (Data Structures and Algorithms) OR ICS with Instructor Permission. Fulfillment: CS Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 254 Distributed Systems (4 Credits)*Typically offered Spring*

This course offers a solid grounding in the basic issues and techniques of parallel and distributed computing. The material covers the spectrum from theoretical models of parallel and distributed systems to actual programming assignments. Pre-requisite: CENG-SHU 202 Computer Architecture Fulfillment: CS elective; CE elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Elective

CSCI-SHU 308 Computer Networking (4 Credits)*Typically offered occasionally*

This course takes a top-down approach to computer networking. After an overview of computer networks and the Internet, the course covers the application layer, transport layer, network layer and link layers. Topics at the application layer include client-server architectures, P2P architectures, DNS and HTTP and Web applications. Topics at the transport layer include multiplexing, connectionless transport and UDP, principles or reliable data transfer, connection-oriented transport and TCP and TCP congestion control. Topics at the network layer include forwarding, router architecture, the IP protocol and routing protocols including OSPF and BGP. Topics at the link layer include multiple-access protocols, ALOHA, CSMA/CD, Ethernet, CSMA/CA, wireless 802.11 networks and link layer switches. The course includes simple quantitative delay and throughput modeling, socket programming and network application development and Ethernet labs. Prerequisite: CSCI-SHU 101 or placement test. Fulfillment: CS Electives, CE Electives, EE Additional Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Elective
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Elective

CSCI-SHU 311 Functional Programming (4 Credits)

Functional Programming is a very powerful and expressive style of programming which has become extremely popular in the recent years, both in academia and in the software industry. There are good reasons for this success: functional programs are modular by design, and interact through expressive and cleanly specified interfaces, using static typing and pattern matching. As a result, functional programs are generally simpler to reason about, to maintain and to execute in parallel than imperative or object-oriented programs. The purpose of the course will be to provide an advanced introduction to Haskell, a purely functional language used today in the software industry for real-world applications. The language comes with a rigorous semantics and everything one could expect of a functional programming language: static type inference, lazy evaluation, type classes, explicit handling of effects using monads, and concurrency primitives and abstractions. We will take the opportunity of this course on Haskell to cover elements of formal language theory, with the implementation in Haskell of a parser, pretty-printer and interpreter for a small imperative language. Prereq: CSCI-SHU 2314 Discrete Math and CSCI-SHU 210 Data Structures Fulfillment: CS elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 350 Embedded Computer Systems (4 Credits)*Typically offered occasionally*

An embedded system is a computer system with a dedicated function within a larger mechanical or electrical system, often with real-time computing constraints. It is embedded as part of a complete device often including hardware and mechanical parts. Embedded systems control many devices in common use today. Topics covered include microcontroller architecture, assembler programming, interrupts, peripheral interfacing, embedded system design, higher-level languages on embedded Systems, as well as a brief introduction to real-time operating systems. Practical Lab Exercises complement the lectures. The students will further specialize and consolidate their knowledge through semester-long hands-on projects. Prerequisite: (CSCI-SHU 11 or CSCI-SHU 101) AND (CENG-SHU 202 or CENG-SHU 201). Fulfillment: CS elective; CE Required, EE Additional Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Elective

CSCI-SHU 360 Machine Learning (4 Credits)*Typically offered Spring*

In this class, students will learn about the theoretical foundations of machine learning and how to apply these to solve real-world data-driven problems. We will apply machine learning to numerical, textual, and image data. Topics will be drawn from perceptron algorithm, regression, gradient descent and stochastic gradient descent, support vector machines, kernels for support vector machines, recommendation systems, decision trees and random forests, maximum likelihood, estimation, logistic regression, neural networks and the back propagation algorithm, convolutional neural networks, recurrent neural networks, Bayesian analysis and naive Bayes, clustering, latent Dirichlet allocation (LDA), sentiment analysis, dimensionality reduction and principle component analysis, reinforcement learning. Prerequisites: Introduction to Computer Programming, Calculus, and (Probability and Statistics OR Theory of Probability OR Statistics for Business & Economics OR Linear Algebra). Fulfillment: Business Analytics Track; Computer Science Electives; Data Science Major Data Analysis Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Required Data Analysis

CSCI-SHU 361 Computer Security (4 Credits)*Typically offered every year*

This class provides a firm grounding in computer security concepts and basics. Students learn about threat modeling, principles of secure design, security policies, access control technologies, and similar topics.

Prerequisite: CSCI-SHU 215 Operating Systems OR Prerequisite: CENG-

SHU 202 Computer Architecture or CSCI-UA 201 Computer Systems

Organization and Co-requisite: CSCI-SHU 215 Operating Systems

Fulfillment: CS, CE, EE elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Elective
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Elective

CSCI-SHU 370 Object-Oriented Programming (4 Credits)*Typically offered occasionally*

Object-oriented programming has emerged as a significant software development methodology. This course introduces the important concepts of object-oriented design and languages, including code reuse, data abstraction, inheritance, and dynamic overloading. Covers in depth those features of Java and C++ that support object-oriented programming and gives an overview of other object-oriented languages of interest. Significant programming assignments stressing object-oriented design. Prerequisite: CSCI-SHU 210. Fulfillment: CS elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 375 Reinforcement Learning (4 Credits)*Typically offered occasionally*

Prerequisite: Machine Learning AND (Probability and Statistics OR Theory of Probability). Fulfillment: Computer Science Major Electives; Data Science Major Courses for Concentration in Artificial Intelligence.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI

CSCI-SHU 376 Natural Language Processing (4 Credits)

Natural language processing (NLP), a form of artificial intelligence (AI) that gives computers the ability to read, understand and interpret human languages, is one of the most important technologies that have made significant progress recently. NLP has been applied to many areas such as spoken dialogue system, machine translation, question and answering, machine reading, document summarization, and even music generation. Traditional NLP approaches involve rules that are handcrafted by linguists. On the other hand, modern NLP approaches are data-driven, trying to learn a model to minimize a target loss function over labeled or unlabeled training text. The course will cover various NLP techniques such as text classification, sequence classification, parse trees, and sequence-to-sequence generation from statistical or deep learning perspectives. Students will be expected to derive mathematical formulas, and code and tune NLP algorithms on datasets in homework assignments. Prerequisite: CSCI-SHU 11 Introduction to Computer Programming and (CSCI-SHU 360 Machine Learning or MATH-SHU 235 Probability and Statistic or MATH-SHU 238 Theory of Probability) Fulfillment: CS elective; DS AI concentration.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI

CSCI-SHU 378 Introduction to Cryptography (4 Credits)*Typically offered occasionally*

The study of modern cryptography investigates mathematical techniques for securing information, systems and distributed computations against adversarial attacks. We introduce fundamental concepts of this study. Emphasis will be placed on rigorous proofs of security based on precise definitions and assumptions. Topics include: one-way functions, encryption, signatures, pseudorandom number generators and zero-knowledge proofs. Prerequisite: Algorithms, theory of probability, or permission of the instructor. Fulfillment: Mathematics Additional Electives; Honors Mathematics Electives; CS Electives.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

CSCI-SHU 381 Recommendation Systems (4 Credits)*Typically offered every year*

This course aims to introduce to the students theoretical and practical knowledge of recommendation systems, including classic and state-of-the-art recommendation algorithms, evaluation metrics, as well as the importance of various user interaction data. During the course, we will discuss the emerging social and technical challenges that modern recommendation systems face. At the end of the semester, students are expected to conduct a final project using the knowledge gained from this course in the form of a written technical report and an in-class oral presentation. Prerequisite: CSCI-SHU 360 Machine Learning or MATH-SHU 235 Probability and Statistic or MATH-SHU 238 Theory of Probability. Fulfillment: CS elective; DS Concentration in AI.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI

CSCI-SHU 410 Software Engineering (4 Credits)*Typically offered occasionally*

An intense hands-on study of practical techniques and methods of software engineering. Topics include: advanced object-oriented design, design patterns, refactoring, code optimization, universal modeling language, threading, user interface design, enterprise application development and development tools. All topics are integrated and applied during the semester-long group project. The aim of the project is to prepare students for dynamics in a real workplace. Members of the group will meet on a regular basis to discuss the project and to assign individual tasks. Students will be judged primarily on the final project presentations. Prerequisites: Intro to Computer Science. Fulfillment: CS Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 420 Computer Science Senior Project (4 Credits)*Typically offered Fall*

The purpose of the Senior Project is for the students to apply the theoretical knowledge they acquired during the Computer Science program to a concrete project in a realistic setting. During the semester, students engage in the entire process of solving a real-world computer science project. It requires students to pursue a long-term, mentored learning experience that culminates in a piece of original work. At the end of the semester, the proposed work comes to fruition in the form of a working software prototype, a written technical report, and an oral presentation at a capstone project symposium. Prerequisite: senior standing with CS primary major. Fulfillment: CS Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Required

CSCI-SHU 997 Computer Science Independent Study (2-4 Credits)*Typically offered occasionally*

Prerequisite: permission of the department. 2-4 credits Students majoring in computer science are permitted to work on an individual basis under the supervision of a full-time faculty member in the department if they have maintained an overall GPA of 3.0 and a GPA of 3.5 in computer science and have a study proposal that is approved by a computer science professor. Students are expected to spend about two to three hours a week per credit (a 4-credit IS would involve about ten to twelve hours a week) on their project. Fulfillment: Computer Science Major Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Computer Science Elective

CSCI-SHU 2314 Discrete Mathematics (4 Credits)*Typically offered Fall and Spring*

This course is an introduction to discrete mathematics, emphasizing proof and abstraction, as well as applications to the computational sciences. Topics include sets, relations, and functions, graphs and trees, algorithms, proof techniques, and order of magnitude analysis, Boolean algebra and combinatorial circuits, formal logic and languages, automata, and combinatorics, probability, and statistics. Co-requisite OR Pre-requisite: MATH-SHU 131 or MATH-SHU 201. Equivalent to MATH-UA 120. Fulfillment: MATH Additional Mathematics Electives, CS Required

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Prerequisites:** MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus.

- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

Core Science (CCST-SHU)

CCST-SHU 133 Water Energy Food Nexus (4 Credits)

Billions of people on earth lack adequate access to water, food, and energy. What might be gained by recognizing the interdependencies that exist between these resources? It is well known that water is fundamental to agriculture and to the entire agro-food supply chain. Moreover, it is clear that energy is required to produce and distribute water and food: to pump water, to power irrigation machinery, and to process and transport agricultural goods. But a global society requires industry and policymakers to take even broader views. For instance, how are water security, energy security, and food security linked, so that actions in one area will likely have impacts in one or both of the others? How will population growth, economic development, and climate change affect international efforts to eradicate poverty? Additionally, what roles might renewable energy technologies play in providing access to cost-effective, secure, and sustainable energy supplies? Students will approach these questions through multidisciplinary lenses and cultivate the skills required to address the social, economic, and environmental challenges posed by the water-energy-food nexus. Fulfillment: CORE STS.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society

CCST-SHU 142 Environment Connections: Water, Waste, and Wellness (4 Credits)*Typically offered occasionally*

This course provides a unique opportunity for students to make connections from their lives to the environment, focusing on the human relation to the natural world. The goal of this class is to escort the engaging student through their individual path connecting popular environmental topics with how they affect their lives and others. Everyone has heard the environmental rhetoric, but what does it really mean to each of us and how is it connected to what has occurred in the past and our future. Specific, contextual examples will be explored including connections between Henry David Thoreau's *Walden* to contemporary novelist. Learners will overlay these literary connections with actual environmental projects. This class encourages students to make connections between science, technology and society (STS) outside of the classroom and their natural world. The primary method for discovery will be the science process skills, where students will research, propose, design, and troubleshoot their own environmental stewardship models. Topics include groundwater flow models, sampling and analysis, chemical and biological data interpretation as well as contaminant remediation designs. Assignments will include formal and informal writing and presentations, as well as a critical thinking activity and project-based learning. This learner-centered experience utilizes active learning methodology to assist participants in making connections between societal attributes, informal education and the natural world. The approach is conceptually-based and subsequently process driven, engaging learners to observe, communicate, classify, infer and predict. A learning environment will facilitate learners to build on their prior knowledge and value of education expanding into models of learning, critical thinking and methods of teaching. Participants will ultimately deliberate the attributes of 'environmentally friendly' or green companies, buildings, fuel and the philosophy of green." Pre-requisite: None. Fulfillment: CORE STS.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society

Creative Writing (CRWR-SHU)

CRWR-SHU 159 Introduction to Creative Writing (4 Credits)*Typically offered Fall*

This workshop course offers a broad introduction to the art of capturing the world around you in your own original fiction and poetry. Through close readings of classic and contemporary examples, intensive in-class workshops, and vigorous revision, students will learn to make their stories and poems live on the page through attention to plot, character, dialogue, language, heartbreaking images and the mystery of the perfect line break. Pre-requisites: None Equivalency: This course counts for CRWRI-UA 815 Creative Writing: Introduction to Fiction and Poetry Introduction to Creative Writing is a requirement for all intermediate/advanced workshop classes. Fulfillment: Humanities Introductory course (18-19: survey).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

CRWR-SHU 161 Introduction to Creative Writing: Literary Translation (4 Credits)*Typically offered Spring term of odd numbered years*

Creative writing and literary translation are deeply connected. Many of our greatest literary texts come to us through translation, and writing your own fiction, creative nonfiction, and poetry often means writing with a sharp awareness of cultural and linguistic richness and diversity (in other words, writing with an awareness of how translation shapes us and our writing). In this course, you will explore creative writing and translation together, working to translate exemplary samples of poetry and creative prose as a way of learning and practicing craft in several fundamental genres and forms. You will then take what you learn about craft and form to write and workshop your own original creative writing and co-translations of fellow students' creative work. We will work primarily in English and Chinese, though texts written in other languages will provide models and examples for discussion and practice. This course may be used to fulfill the prerequisite requirement for intermediate Creative Writing workshops. Prerequisite: None. Fulfillment: This course is designed to fulfill the same fundamental requirements as Introduction to Creative Writing with the key difference being that, in addition to writing their own creative works, students will also study form and genre by translating exemplary works of poetry and narrative prose. Pending further discussion, development and approval, students would be able to take an intermediate literary translation course to complete a Creative Writing Minor with an Emphasis in Literary Translation.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 170T Topics in Creative Writing: Creative Translation (4 Credits)***Typically offered every year*

This introductory course welcomes all students with an interest in language as a medium of creative expression. Unlike other creative writing classes, here the emphasis is on writing in and across multiple languages rather than on writing in one language. This does not mean students must be competent in more than one language or have previous creative writing experience, only that students have both a strong interest in creative writing and a deep curiosity about how much of the great writing that helps shape our experience of the world comes to us through translation in one form or another. Students will work individually and in small teams to translate exemplary short works of prose and poetry into English (primarily but not necessarily exclusively from Chinese; depending on student interests and backgrounds we may also translate into Chinese or other languages). Students will also write their own short creative poetry and prose, and work together to translate one another's work into at least one other language. We will often work with cribs — basic rough translations that require further careful work as a reader, researcher and a creative writer to render as texts that succeed in a new language. Students will study basic translation theory and concepts, then work to put those concepts into practice as translators and as critical readers. We will discuss ethical questions that arise when we bring work from one culture into another, as well as the increasing importance of helping people from different cultural backgrounds understand one another. Prerequisite: None. Fulfillment: This course counts as an elective class towards the creative writing minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

CRWR-SHU 175 Storytelling Strategies (4 Credits)*Typically offered occasionally*

The ability to understand "what makes a good story well told" is a critical skill for the visual storyteller. Storytelling Strategies considers dramatic narrative through an examination of the structural and mythic elements first established by the ancient Greek playwrights and recognized by Aristotle in his "Poetics" thousands of years ago. The course continues this examination up to and including the current Hollywood paradigm, "the three-act structure." We will seek to identify those principles that form the backbone of successful narrative screenplays and contribute to a film's ability to resonate with an audience. The lecture is for analysis. The recitations are for applying what you have learned, through writing exercises leading towards a completed short screenplay. Prerequisites: none. Fulfillment: IMA/IMB elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

CRWR-SHU 176 Collaborative Writing and the Dynamics of Power (Television & Film Writing) (4 Credits)

A collaborative writing course where students work in groups to create polished television (or film) scripts and learn the fundamentals of dramatic writing. Creativity and the group dynamic is explored. This course is appropriate for both beginning and advanced writers. This course covers the material of a traditional narrative writing class and also puts into action theories of Organizational Behavioral Management such as: communication, motivation, conflict resolution, emotional intelligence, group dynamic, stress, and the influences of gender, race, age, and class on power within a group. Interpersonal skills and the ability to navigate the group dynamic are, perhaps, 75% of what it takes to be a working writer. But they also can be applied to ANY FIELD and any work environment. Prerequisites: none. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 177T Topics in Creative Writing: Dramatic Writing (4 Credits)**

This class exposes students to a wide range of dramatic writing (script writing) for film, television, playwriting, adaptation, documentary "writing," and new media. You will become a more confident and well-rounded writer by the end of this course. We will explore essential building blocks of writing for the screen – character, visualization, dialogue, scene structure, conflict, and sequence. You will learn techniques and be led through in-class writing exercises that let you tap into inspiration at will and not wait for it to haphazardly or infrequently strike. The class will culminate in your own individual script project (short or long), and the course can be adapted to address individual student's needs. Critiques will be done in the workshop setting, which can handle writers of different levels. Thus, this class is appropriate for both beginning and advanced writers. It can be taken in conjunction with Collaborative Writing. Or it can be taken independently. Prerequisites: none. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 201T Topics in Creative Writing: Creative Writing, Creative Translation: The Art of Literary Translation (4 Credits)**

What can close attention to literary translation teach you about your own writing? How can close reading and creative translation among and between languages sharpen your skills as a creative writer and critical reader? And isn't all reading and writing fundamentally an act of creative translation, even within familiar languages? In this class, students will explore literary translation as a practice that goes far beyond simply translating a text from one language into another. Working individually and in groups, students will not only translate classic and contemporary literary texts between Chinese and English, English and Chinese, but will also be invited to write creatively in whatever languages they bring to the class and then work collaboratively to produce translations into English and/or Chinese. We will also explore texts that introduce key concepts from the philosophy of language, from the discipline of translation studies, and from related fields including history, cultural studies, and linguistics to help us think more deeply about the practice and challenges of literary translation. For a final project, we will work to produce an anthology of student work – both original creative writing and collaboratively produced creative translations into English and Chinese from the languages that students bring to the class and write in. Prerequisite: CRWR-SHU 159 Introduction to Creative Writing, or junior/senior standing Fulfillment: Intermediate Workshop for Creative Writing minors; Humanities Advanced course

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

CRWR-SHU 207 Introduction to Screenwriting (4 Credits)*Typically offered occasionally*

Introduction to Screenwriting examines the principles of story structure through the close analysis of classic and contemporary screenplays. Using Robert McKee's *Story* and Paul Gulino's *The Sequence Approach* as primary texts, students will learn the basic mechanics of character, genre, theme, act design, scenecraft, and dialogue. Lectures will blend dramatic theory with practical examples from each week's screenplay. Students are expected to complete a logline, a synopsis, a scene by scene outline, and the first act of a feature-length script. Writing workshops and peer review are integral to the development of the course. Prerequisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: Humanities other Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

CRWR-SHU 209 The Art of the Personal Narrative (4 Credits)*Typically offered Spring term of odd numbered years*

In this intermediate creative writing workshop, students will explore how writers articulate a unique “I,” drawing directly from personal experience. Students will write their own narratives across several genres and in several modes, working at times from immediate observation, at others from memory, sometimes drawing upon research, and often using techniques of fiction and poetry to inspire creative writing that can push the personal essay and memoir in the direction of inspired fiction, poetry, and cross-genre experimentation. In addition to developing their own writing projects, students will read and analyze a range of exemplary texts in which writers use the “I” as point of departure for writing about the world—moving beyond narrow exploration of the “self” into dynamic engagement with others and with the environment, with history, the city, travel—and anything and everything else a great writer can make us care about. Prerequisite: CRWR-SHU 159 Introduction to Creative Writing OR WRIT-SHU 201 PoH. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 217 The Art of Linked Collections (4 Credits)***Typically offered every other year*

Welcome to The Art of Linked Collections. This course explores the art of writing short fiction with a focus on linked stories. In discussing what compelled him to write two linked short story collections, Junot Díaz muses, “Maybe I could have written conventional novels from both sets of material but I’m not convinced I could have gotten the same jagged punch, the same longing and silences that rise up from the gaps in and between the linked stories. I guess I’m just hopelessly fascinated by the realities that you can assemble out of connected fragments.” In this course, geared toward intermediate and advanced fiction writers, we explore the jagged power of the linked story collection and what can be gained from the points of connection as well as the narrative gaps between stories. Students will read linked collections by such writers as Junot Díaz, Denis Johnson, Haruki Murakami, Alice Munro, Elizabeth Strout, and Jenny Zhang and will complete several linked stories of their own, gaining appreciation for a form Sonya Chung aptly characterizes as “compression and vast heterogeneity in one!” Students must have completed Introduction to Creative Writing or be of junior or senior standing to enroll in this course. Exceptions by permission of the instructor. Prerequisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 219 Out of the Whirlwind: Studies in Narrative Perspective (4 Credits)***Typically offered occasionally*

In the Book of Job, the voice of God speaks out of the whirlwind. The voice of The Hunger Games is Katniss Everdeen herself. Oscar Wao is not the narrator of his brief and wondrous life: Yunior is. In this intermediate craft course, we will investigate how the teller shapes and powers the story. Along with critical texts, we will read fiction told in a variety of perspectives, including stories that aren’t easily categorized. How does a narrator reveal herself? How is narrative perspective developed, maintained, and broken? When is intimacy created with the reader, or distance from him, and why? Students will write their own stories in an experimental array of perspectives—from the third-person omniscient we associate with Dickens, to the unreliable first-person beloved by fans of J.D. Salinger, to the less traditional second person found in Lorrie Moore’s work. Alongside discussions of narration, we will continue to practice additional craft elements: plot, characterization, and imagery, among others. Students will be required to complete a substantial fiction project, but may also experiment with other or hybrid genres as part of their work for the course. This is a course for students who love to read, who are committed to the practice of writing creatively, and who aim to become better creators and analyzers of stories. This is also a workshop, and we will share our creative work and respond to the work of others in a writing workshop setting. Prerequisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 220 Intermediate Creative Writing Craft Course (4 Credits)***Typically offered Spring term of odd numbered years*

In this intermediate craft course, we will investigate how the teller shapes and powers the story. Along with critical texts, we will read fiction told in a variety of perspectives, including stories that aren’t easily categorized. How does a narrator reveal herself? How is narrative perspective developed, maintained, and broken? When is intimacy created with the reader, or distance from him, and why? Students will write their own stories in an experimental array of perspectives—from the third-person omniscient we associate with Dickens, to the unreliable first-person beloved by fans of J.D. Salinger, to the less traditional second person found in Lorrie Moore’s work. Alongside discussions of narration, we will continue to practice additional craft elements: plot, characterization, imagery, among others. Students will be required to complete a substantial fiction project, but may also experiment with other or hybrid genres as part of their work for the course. This is a course for students who love to read, who are committed to the practice of writing creatively, and who aim to become better creators and analyzers of stories. This is also workshop, and we will share our creative work and respond to the work of others in a writing workshop setting. Prerequisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

CRWR-SHU 221 Intermediate Poetry Workshop (4 Credits)*Typically offered Spring term of even numbered years*

In this intermediate creative writing workshop, students will explore the possibilities of poetry by writing and sharing their own work while also engaging with exemplary works by great poets from a range of traditions, background and times, with a practical emphasis on contemporary poetry and its many vibrant modes and methods. At times, students will experiment with age-old forms such as the sonnet, haiku and sestina; at other times students will pursue the possibilities of contemporary performance poetry and spoken word, Modernist collage and pastiche, postmodern hybrid poetries, and emergent digital poetics. The goal for each student will be to create a body of work that draws on knowledge of traditional forms while also speaking directly to the unique circumstances of our times – and each individual poet's experience. Prerequisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: Humanities other Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

CRWR-SHU 245 Intermediate Fiction Workshop: Speculative Fictions (4 Credits)*Typically offered Fall of odd numbered years*

Science fiction, fantasy, horror, weird fiction, alternative histories—all fall under the heading of speculative fiction. This class has three basic components: 1) reading and discussing a focused set of works of speculative fiction framed by a set of creative writing craft, instructional and critical texts; 2) research in support of semester project development and execution; and 3) frequent writing exercises and assignments, culminating in a semester project. You will read and discuss to understand better how speculative fiction works, both in terms of basic narrative techniques common to all fiction as well as with regard to challenges, such as worldbuilding, that may be considered unique in importance to speculative fiction. You will also conduct research necessary to both better understand those texts and their authors' techniques and thinking, and to do work necessary to support your own creative experiments in writing your own speculative fiction. Research is a big part of the successful speculative fiction writer's practice, and it will be a significant part of this class. Pre-requisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: IMB Interactive Media Elective Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

CRWR-SHU 246 Illuminating "Life's Foolscape": Intermediate Creative Writing (4 Credits)

This workshop, designed for intermediate writers, explores the art of creative nonfiction with emphasis on the memoir and personal essay. In *Speak, Memory*, Vladimir Nabokov observed that the "unique design" pressed upon his life "becomes visible when the lamp of art is made to shine through life's foolscap." In this course, we will be shining the lamp of art on our own lives, finding their unique, meaningful patterns as we strive to convey the complexity and truth of our experiences. Students will encounter a wide range of voices and literary techniques by noted practitioners of the genre such as James Baldwin, Joan Didion, Susanna Kaysen, Maxine Hong Kingston, and Virginia Woolf. From our perspective as working writers, we will examine how these authors construct their texts and learn elements of craft through close reading and imitation. In our class discussions and workshop, students will be asked to develop and articulate their aesthetic judgments and to give constructive feedback on their peers' manuscripts. Our ultimate aim is to write daring, poignant, powerful narratives, working hard to transform our original drafts into memorable and engaging works of art. Prerequisites: Students must have completed Introduction to Creative Writing or be of junior or senior standing. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**CRWR-SHU 248 Writing the Novella (4 Credits)***Typically offered Fall of even numbered years*

Too long to be a short story and too short to be a novel, the novella has been described by Stephen King as a country with "ill-defined" borders situated between "two more orderly regions." The novella's intermediary length can make it less palatable to magazine editors and book publishers alike, but in spite of its perceived lack of commercial viability many of our most enduring stories are novellas—Heart of Darkness, The Turn of the Screw, The Metamorphosis, Animal Farm, and A Christmas Carol, to name just a few. In this course, geared toward intermediate and advanced fiction writers, we explore the exciting possibilities of the form through our readings and work on novellas of our own. By the end of the course, students will have read a wide range of novellas by international authors such as Saul Bellow, Robert Bolaño, Eileen Chang, Anton Chekhov, Elena Ferrante, Neil Gaiman, Yasunari Kawabata, and Alice Munro. They will also have completed a significant portion of their own novellas, gaining a deeper understanding of what Ian McEwan calls "the modern and post-modern form par excellence." Prerequisite: Introduction to Creative Writing (CRWR-SHU 159 or CRWR-SHU 161) OR Junior standing. Fulfillment: This course will fulfill one of the two the Intermediate Workshop components for the creative writing minor. Humanities other Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

CRWR-SHU 260 Writers on Writing (4 Credits)*Typically offered occasionally*

The premise of this course is that gifted writers highly conscious of their craft teach us more pointedly about creative writing when, juxtaposed to the creative work of each, we hear, see and experience what each identifies as fundamental to his or her writing practice — whether technique, discipline, recurrent battle, avenue of inspiration, self-imposed rule or other. This course looks to such writers as guides from whom we may learn by studying the steps they have taken over time to develop and hone their craft. The course typically (but not always) pairs, each week, one or two pieces of an author's creative work with another that reflects critically on some aspects of their writing practice, and on the craft of writing. In essence, this is a hybrid course that blends study of creative work with that of writers' critical self-reflection. Students also pursue their own creative writing projects, reflecting critically on their own process along the way. The course readings draw from multiple cultures, literary traditions, and genres including the short story, flash fiction, the novella, the essay, memoir, diary, children's literature and poetry. Prerequisite: Writing as Inquiry WRIT-SHU 101/102 OR CRWR-SHU 159 Introduction to Creative Writing OR CRWR-SHU 161 Introduction to Creative Writing: Literary Translation Focus Fulfillment: This course counts as one of the three intermediate/advanced creative writing workshops required for completion of the Creative Writing Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Creativity and Innovation (PCIX-SHU)

PCIX-SHU 101 Creativity Considered (4 Credits)*Typically offered occasionally*

We hear every day about the importance of creativity in our lives, careers, and societies — its importance for personal development, for the generation of new ideas, forms, and expressions, for the work of organizations, large or small in scale, science and technology or arts and culture-focused, in the private or public sector. And yet, it is important to ask: Can creativity be usefully studied or is it, in fact, something best left to life, luck, or other factors that may determine one's abilities and opportunities in this area? The premise of this course is that, while not taking away from what can be called the magical aspect of creativity, we can benefit from considering creativity in some detail. Another premise of the course is that there is merit in considering creativity across very different areas of human enterprise — science, art, business, government, and more. Implicit in this premise is the assumption that while creativity is manifested in many different ways, there are some common characteristics of creative work which we can identify and put into practice. A detailed consideration of creativity across various areas of human enterprise is the subject matter of this course. Pre-requisites: None. Fulfillment: Business & Finance Major Non-Finance Elective, Business & Marketing Major Non-Marketing Elective, IMA Major Elective, IMB Major IMA/Business Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 102 Experience Studio (2 Credits)*Typically offered Fall and Spring*

Experience Studio engages students in an immersive learning experience that brings them outside the classroom and into the community. This project-based course provides an opportunity for students to learn about experience design in practice. They will (1) engage in field experience with a community partner, exploring the theoretical and practical underpinnings of experience design through readings, guest talks, field trips, and reflective practice. Drawing from their field research learnings, students (2) produce a project that addresses a real-world challenge, through processes such as rapid prototyping, user testing, and customer research (informed by skills and insights from the initial experience). This course can be taken repeatedly as it will be offered by different instructors in collaboration with different course partners each semester. For the upcoming semester's offerings, please visit: <https://nyushpci.mystrikingly.com/blog/spring-2025-sections> Prerequisite: None Fulfillment: IMB major IMA/IMB elective; Creativity+Innovation Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 103 Life Design (4 Credits)

This course is about designing your life. What if you used the same innovation principles that startups use and applied them to your own lives? Students are introduced to design thinking as a framework to process their college experience and explore life after graduation. This course will use rapid prototyping methods to test out career interests, engage in behavior design, and ideate on multiple futures. The course will be delivered in a studio setup with in-class design workshops, group discussions, personal reflection, individual coaching and field trips. Prerequisite: None. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 201 Design Thinking (4 Credits)*Typically offered Fall and Spring*

Design Thinking is a theoretical, methodological and practical framework that has the potential of bringing about socially responsible innovation. This course will introduce the core concepts and toolkits of design thinking as the foundation of innovative thinking and practices. It requires you to step out of your comfort zone and to examine and challenge your own assumptions. Critical thinking, teamwork, and empathy are the three pillars of this course. Prerequisite: Not Suitable for First Semester Freshmen. Fulfillment: IMA Major Electives; IMB Major Business Elective/ Interactive Media Elective, IMB Emerging Media Foundation; Business and Finance Major Non-Finance Electives; Business and Marketing Major Non-Marketing Electives; Creativity+Innovation Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 202 Communicating for Influence (4 Credits)*Typically offered Spring*

Communication sits at the core of all human interactions and is highly valued in workplaces. Beyond the minimal goal of articulating and presenting one's ideas effectively, communication also involves building empathy, cultivating an eye for detail, developing awareness of goals and contexts, and integrating critical and reflective thinking. How can we communicate our own projects to different audiences? Why should other people care? What types of media can we use and how do we know they are effective? How can collaborative and participatory elements help to improve engagement levels? This course aims to guide students to review and create their own learning profiles as they learn to engage a diverse range of targeted audience. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective; IMB Emerging Media Foundation.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 241 Creative Learning Design (4 Credits)*Typically offered occasionally*

This practical, hands-on course will explore questions such as: How can we design engaging, creative learning experiences that are relevant to the cultural goals and needs of today's youth in China, while laying the foundation for creative learning for the workforce of tomorrow? What are engaging, effective creative learning resources, and how are they best implemented in Chinese learning settings? How can we take advantage of young people's near ubiquitous love of the arts to facilitate creative learning? In this course, students will work in teams to design digital learning resources and experience designs at the intersection of music, coding, arts, and technology. The course will begin with an introduction to emerging trends in learner engagement and design-based research, especially related to web- and mobile-based musical experiences and principles of making music with new media. Innovations in and applications of musical interaction, interactive technologies, user-centered design & engagement, scaffolded learning, creative learning, pedagogies of play and making, and educational entrepreneurship will also be explored. Students will work together in teams and paired with a partner audience of learners and teachers in Shanghai drawn from local and regional international schools, ed-tech startups, and cultural partners. Together they will assess the needs and opportunities of partner students and teachers, and engage in a two-stage iterative, reflective co-design process prototyping custom learning resources and experience designs with their partner end users. At the end of the course, students will present and demo their learning resources as part of a public showcase to an external audience of partners, educators, technologists, musicians, entrepreneurs, and experience designers in Shanghai. Prerequisites: None. Fulfillment: IMA elective; IMB major IMA/IMB elective; Creativity+Innovation Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 301 Entrepreneurship Experienced (4 Credits)*Typically offered occasionally*

This practical course will introduce students with ideas and frameworks to quickly test, iterate and validate start-up business ideas. The course will explore questions such as: How can we validate an opportunity? What is a “value proposition” and how critical is it? What are the most popular business models and can new ones be invented? Why are investors constantly looking for “Product Market Fit”? Why do “Customer Cost of Acquisition” and “Lifetime Value” matter? The course will also provide an opportunity to apply these newly learned methodologies with one project. For this projects students will work in teams of two to three students. For their projects, teams will be experimenting with customers’ feedback, iterating business propositions and identifying key traction factors. At the end of their projects, students will present and demo their business idea to their peers and an external audience of entrepreneurs/business managers in Shanghai. Prerequisite: Sophomore standing or above. Fulfillment: IMB Major Business Elective or IMB major IMA/IMB Elective; Business and Finance Major Non-Finance Electives; Business and Marketing Major Non-Marketing Electives; Creativity+Innovation Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective
- SB Crse Attr. NYU Shanghai: IMB Interactive Media Arts/Business Elective

PCIX-SHU 302 Experiential Learning Design (4 Credits)*Typically offered every year*

How can learning be designed to be meaningful and transformative? This is an advanced-level course that explores the pedagogical approaches and key theories that inform facilitating and designing experiential learning. Students will develop and apply their understanding of learning theories and approaches by engaging with two experiential learning projects: one focused on facilitation design and second focused on learning design. Both projects will provide students with an opportunity to practice situated learning, social-emotional learning, and participatory experience design. In parallel to the two projects, students will create reflection and project portfolios to document their reflections throughout the course. Prerequisite: Not suitable for first semester freshmen or sophomore standing Fulfillment: Creativity and Innovation Minor, General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Cultural Foundations (CCCF-SHU)****CCCF-SHU 101W1 Perspectives on the Humanities: Beyond Nature (4 Credits)***Typically offered Fall*

The most recent developments in eco-criticism see a fatal flaw in our predominant conception of nature—as pure, beautiful, and grand—arguing that it alienates us from the very thing we wish to protect, and doing so, only ensures continued environmental degradation. The corrective is an expressly 21st century mode of ecological seeing and questioning that allows us to reconceive of ourselves and the world as beyond nature. But because the idea of nature remains so central to our understanding of ethics, law, human sexuality, psychology and personhood, and artistic representation, we must ask what implications the new ecology might have for our understanding of these features of culture. In this course we survey positions of the new ecology, and then apply these methods of critique to examples of society, self, and art. This application will both reveal how central nature is to our ideological understanding of culture and trouble our notion of what is natural. Continuing Writing as Inquiry’s line of instruction, this Perspective on Humanities course will cover principles of rhetoric and argumentation—such as problematization, invention (thesis discovery and execution), research methods, and strategies for unity and cohesion—principles that the student will find applicable in a range of academic disciplines and rhetorical situations. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W11 Perspectives on the Humanities: American Superheroes (4 Credits)*Typically offered Fall*

This course organizes student writing and research around the study of American superheroes in comics, film, and television. Born in a low-prestige, disposable medium, superhero narratives now drive franchise production at some of the world’s largest media conglomerates, which make, distribute, and license content for audiences worldwide. The course aims to introduce students to three interpretative approaches. First, the formal study of texts: Scott McCloud’s *Understanding Comics* offers a point of entry to the study of comics as a narrative art form, which we can then apply to Alan Moore and Dave Gibbons’s *Watchmen*. Second, the historicist study of genre: students will learn about the industrial and commercial forces that converted the superhero from newsstand kid stuff to the subject of negotiations between Hollywood and Wall Street. Third, the political economy of commercial media: we will look at how Hollywood exploits superheroes as intellectual property, and who benefits from that exploitation. We will also look at how studios have navigated the political demands of their largest new market: the People’s Republic of China. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W16 Perspectives on the Humanities: Brutes, Monsters, Ghosts, and Other Troubling Creatures (4 Credits)*Typically offered Fall*

This course will focus on representations of the "other"—creatures we define as fundamentally different from ourselves. We will examine why we create boundaries between the human and the nonhuman and how writers, artists, and filmmakers throw into question these divisions. How do animals, objects, monsters, ghosts, and other phantasmagoric, hybrid creatures in the texts we will study both reflect and subvert existing power structures? We will examine how these "troubling creatures" speak to societal anxieties about gender, sexuality, class, race, and culture. We will also explore how these creatures, by speaking unexpectedly and out-of-turn, challenge power hierarchies. Course materials include fiction, poetry, visual media, and theoretical texts and will provide an introduction to literary analysis, film studies, gender studies, and philosophical debates about the division between the human and the nonhuman. Monsters we will study may include Frankenstein, Dracula, beasts, and ghostly shapeshifters. The writing skills we practice will build on those from Writing as Inquiry. Primary assignments for this course will be analytical essays, including one with a research component, and a final presentation. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W17 Perspectives on the Humanities: Go West! (4 Credits)*Typically offered Fall*

Name the country: armies, exiles, settlers and traders leave behind a crowded eastern seaboard and set forth into a vast western highlands peopled by starkly different cultures, building a nation and spinning its legends under an endless sky. Like NYU Shanghai itself, this familiar story is one shared—at least in its grandest outlines—by both the United States and China. Both nations' centuries-long projects of western expansion have given rise to literature, poetry, film and even computer games that have helped to define each nation's hopes, fears and dreams. While the U.S. tales of cowboys and Indians became famous around the globe, China's lesser-known stories of conquest and nation-building are no less crucial to its national identity. In this course we will explore where these stories overlap, where they diverge, and where they point us in a post-frontier world. This course will extend writing skills and concepts learned in Writing as Inquiry, focusing on critical theory, research, and academic writing and expression in the humanities. The primary assignments will be analytical essays. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W19 Perspectives on the Humanities: The Truth is Out There? (4 Credits)*Typically offered Fall*

How do we re-present history? How do we narrate the past? In this Perspectives on the Humanities course, we consider how various actors—in particular, historians, journalists, artists, memoirists, documentarians, and filmmakers—create texts which contribute to public discourse about our past histories, our present societies, and our shared future. We will examine the ways these visual and written texts shape the contours of our collective memories, giving voice to the underrepresented, establishing (or challenging) authoritative narratives, recasting history to serve the agendas of the present and, at times, eclipsing other possible truths with their evocative power. The goal of our inquiry is not to separate "true" histories from "false" ones. But we will be cautious about these texts' potential power, undertaking a comparative analysis of how they are constructed and how they work—and work on us. We will continue to build upon the skills of writing and inquiry introduced in Writing as Inquiry. The course will emphasize close reading of visual and narrative texts; the analysis of these texts in the context of relevant theoretical perspectives; and developing an inquiry through research essays. The primary assignments are research essays. In some of our case studies, we will encounter traumatic moments in world history; the texts which re-present these events may include painful content. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W20 Perspectives on the Humanities: The Question of the Anthropocene (4 Credits)*Typically offered Fall*

In 2016, a group of scientists formally declared that the planet Earth recently entered a new geological epoch: the Anthropocene. Though broad scientific consensus on the matter has yet to be reached, the very concept of the Anthropocene — the idea that we humans have fundamentally altered our planet at such a deep level that it registers in the permanent geological record — has not only caught on with scientists, but also philosophers, artists, writers, and filmmakers concerned about the future of life on our planet. In this class, students will explore a range of texts across several genres that take up the question of the Anthropocene while developing and practicing a range of skills central to critical analysis and academic writing. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W21 Perspectives on the Humanities: Sino-Western Literary Exchanges (4 Credits)

Typically offered Fall

This course aims to explore the major literary linkages between China and the West in the modern period broadly understood. We will trace the historical contours of that great encounter, but the main goal is to study its cultural impact. We will examine the images and representations that one culture constructs about the other and probe into the issues and problems that arise in the process, such as intercultural misunderstanding, adaptation and appropriation, translation and interpretation, Orientalism and literary modernization. After a preliminary discussion of the theoretical and politico-ideological issues involved, we will proceed to study several culturally significant cases in the history of contacts between China and the West: Voltaire's rewriting of traditional Chinese drama, Ezra Pound's translations and his peculiar understanding of the Chinese language, literature, history, and culture, and Lu Xun's accommodation and appropriation of Western literary themes and methods in his now classic short stories. These clusters of texts will provide insights and impart lessons that you can then apply in investigating problems of your own in contemporary cultural exchanges. This course will extend writing skills and concepts learned in Writing as Inquiry, focusing on critical theory, research, and academic writing in the humanities. The primary assignments will be reflective, analytical, and exploratory essays. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W22 PoH: Networked Bodies: Exhibits, Organ Donations, and Alternate States of Ability (4 Credits)

Typically offered Fall

This course will organize student writing and research around the different ways our bodies are, or can be, constructed. We will consider how recent scholarship in disability studies have challenged popular conceptions of health and able-bodiedness, and examine the controversy surrounding international exhibits of deceased human bodies. We will also read fictional narratives of mechanically enhanced human bodies and cyborgs, and discuss the ethics of human organ donation. The boundaries of our bodies are much more porous than we may think, challenging the very concept of what constitutes the human. We will explore various humanities fields to guide this investigation. Much of the work we do will take the form of writing and research, extending writing skills and concepts learned in Writing as Inquiry. Our discussions, textual engagement, and scholarly research will enable us to consider how the ways in which bodies are connected are much more varied than we may have thought. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W24 Perspectives on the Humanities: Medicine and Disease in the Humanities (4 Credits)

Typically offered Fall

This Perspectives on the Humanities course will explore the medical humanities, drawing upon literature, art, history, and anthropology to examine the culturally situated experiences of being ill and treating illness. While the importance of the medical humanities is most often stressed in the context of educating future doctors, the field is relevant to all of us: as Susan Sontag writes, "Everyone who is born holds dual citizenship, in the kingdom of the well and in the kingdom of the sick... sooner or later each of us is obliged, at least for a spell, to identify ourselves as citizens of that other place." Readings will encompass memoirs by patients and physicians, historical and contemporary case studies, and works by medical anthropologists, including an ethnographic study of healthcare in Shanghai. In discussing these texts, we will consider how social and cultural factors shape perceptions of wellness and disease, with particular attention to the role of language. How objective is "scientific" communication and what experiences might it fail to capture? How does the language used to talk about a disease affect our perception of those who have it? Why do memoirs of illness have such strong appeal to many readers? Key authors include Susan Sontag, Barbara Ehrenreich, Oliver Sacks, and Anne Fadiman. This course will build upon skills and concepts introduced in Writing as Inquiry, such as evaluative reading and writing techniques, rhetorical organization, and strategies for effective research. Primary writing assignments will be analytical essays, at least one of which will involve a research element. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W25 Perspectives on the Humanities: Everything You Know About Science Is Wrong (4 Credits)

Typically offered Fall

What is science? Who has the authority to determine what qualifies as science? Is scientific knowledge inherently political? This class will focus on the human dimensions of science. We will examine a number of case studies, including early twentieth-century scientific racism in the U.S. and contemporary global climate change discourse. Drawing from work such as Kapil Raj's *Relocating Modern Science*, the class will explore debates about the origins of scientific modernity. Did "modern science" originate in the "West" before diffusing elsewhere? We will focus especially on questions of identity and representation in the making of scientific cultures. For instance, which factors have contributed to the creation of gendered scientific cultures? Our readings will include primary sources, graphic novels, and science fiction. Building on skills and concepts from Writing as Inquiry, we will emphasize issues of argument, evidence, and structure in analytical writing. Paper assignments for the course will include analytical essays in several genres, including a research paper. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W27 Perspectives on the Humanities: Memory, Identity, and Resistance in a Global Context (4 Credits)*Typically offered Fall*

This course explores how and why 20th and 21st century authors, from across the globe and writing in different genres, depict, re-imagine, and problematize individual, familial, and group identities through tapping into memory. In the process, they offer nuanced representations of their nations. Yet, as the business of representing involves inscriptions and erasures, narratives rarely achieve consensus: some are disapproved by the author's ethnic group, others dismissed by the dominant culture or banned by a despotic regime. Thematically dynamic and often formally innovative, some of these writings invite fascinating questions which the course aspires to investigate and will have students engage through writing responses and research projects. Some of the larger questions that we will unpack may include the following: Is there a close relation between national myths formation and othering of minorities? Is the imagined group identity fictitious or real? What role does remembering play in unveiling or perpetuating injustices? What solutions do some of the writers suggest to help communities heal or move forward in spite of the trauma? Why do certain women writers reclaim lived traditions and invoke indigeneity, orality, and matrilineal ancestral history? And can we, readers, serve as witnesses to the horrors revisited in a literary text? The course will continue to build upon the writing and critical thinking skills introduced in Writing as Inquiry. Students will be introduced to theoretical perspectives and will sample texts from different literary genres. They are required to produce close readings, analytical pieces, and research projects. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W28 PoH: The Pursuit of Beauty (4 Credits)

The recent popularity of the photo-editing app Facetune and Instagram's and Snapchat's editing filters, as well as the increasing expression of the view that cosmetic surgery is a form of "empowerment," prompts us to question – why do we seek to appear beautiful? Which leads to the more profound question: What is the meaning of beauty? What is its role in our human lives? Who decides who or what can be called beautiful? What is the relationship between beauty and desire and how might we try to untangle it? Do we link, perceptively and persistently, beauty and goodness and therefore ascribe morality to beauty itself? What is the relationship between beauty and aspects of power? In this course we will investigate literary interpretations of and reflections on beauty and read philosophical, theoretical and critical texts to help us frame our questions. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W29 Perspectives on the Humanities: Eating Your Words - The Rhetoric of Food (4 Credits)*Typically offered Fall*

How do we translate the rich taste of a wine into words? Does the language we use to describe food affect its taste? Has your grandmother ever told you she loved you by cooking a special meal? When you buy street foods, which languages do you hear being spoken around you? Most of the time, our encounters with food focus on eating, but food is deeply enmeshed with language—what Plato called a "feast of discourse." This course will give you a taste of how language and food intersect. It will investigate the ways that we speak about food; the ways that we communicate through food; and the ways that languages come into contact in food places. Our readings will include fiction, non-fiction, cookbooks, menus and proverbs. We will watch films, look at still-life painting, and examine commercials, posters, and ads. At the same time, we will further develop your analytical and writing skills. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W3 Perspectives on the Humanities: Tales of Gender and Power (4 Credits)*Typically offered occasionally*

This course will explore how the expression, exercise and experience of power, as it interacts with gender, impacts human relationships. We will start the semester in the realm of the sacred with an examination of various ancient cosmogonies' gender dynamics—the Greek, Chinese and Judeo-Christian. As we move across millennia, we will engage a variety of great works of different cultures, such as *The Epic of Gilgamesh*, *The Arabian Nights*, Mary Shelley's *Frankenstein* and the films *Raise the Red Lantern* and *The Truman Show*. Our main area of inquiry will be the primary relational constellations among humans: couples involved in lover-spouse intimacies and families shaped by father-mother-son-daughter allegiances. Gender figures significantly in the dynamics of these relationships, impacting the lives of individuals and families as well as informing the expression of social groups and cultural traditions. As we gain a deeper understanding of the subtle yet complex plays of power involved in certain gender relations, our inquiry will also bring us close to other crucial human issues, such as: the quest for knowledge, the uncertainties of identity and self, the creative need for love and community, the fear of/attraction to death, and the longing for transformation and transcendence, amongst others. Drawing on literary texts ranging from ancient to contemporary times—myth, epic, novel, film, drama, poetry—as well as products of visual culture and the performance arts, this course will examine how each articulates and resolves (or not) the above complex relationships and issues. To gain perspective, we will apply a variety of critical lenses to our close readings of texts, including the works of psychological and philosophical theorists such as Freud, Luce Irigaray, and Judith Butler. One required class attendance at an evening theatre performance will occur. This course will extend writing skills and concepts learned in Writing as Inquiry, focusing on critical theory, research, and academic writing and expression in the humanities. The primary assignments will be analytical essays and a digital expressions project. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W30 Perspectives on the Humanities: Global China Fiction (4 Credits)*Typically offered Fall*

Nations defend fixed boundaries; stories go where they please. This section of Perspectives on the Humanities will take NYU Shanghai's embrace of a 'Global China' as directive for a semester of reading and writing across a broadly defined Chinese diaspora of searchers, emigrants, rebels, and yes, global citizens, to map the blurred edges of culture, language, blood and home. From Sui Sin Far in 1890s Montreal to Sanmao in 1970s Sahara, from Frank Chin's Chinatown cowboys to a current boom of young writers flying and clubbing between Beijing and New York, we'll close-read and write our way into ever-evolving conversations over nationalism, assimilation, and cultural differences. In the light of both China's rise to superpower and a troubling rise of ethnonationalism around the world, we'll follow these wandering stories to wonder: can any place, or any people, or any one person, become global? And if so, what along the way must be learned, forgotten, held tight, or set free? Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCF-SHU 101W31 Perspectives on the Humanities: Race/Class/Borders (4 Credits)*Typically offered Fall*

With each reprinting of *Citizen* (Graywolf Press), a hybrid poetry/essay/art collection, Claudia Rankine adds to page 134, a textual monument listing the names of African-American victims of police brutality. And, in her episodic book-length essay, *Tell Me How It Ends* (Coffee House Press), Valeria Luiselli documents and laments her experiences working with migrant children in the United States. Lastly, in her science fiction novel, *Dawn* (Grand Central Publishing), Octavia Butler describes a character's adjustment to an alien invasion. By investigating the formal, sociological, and ethical questions within these contemporary works of literature, students will develop their critical thinking and writing skills. We will employ excerpts of literary and critical theory texts to aid this inquiry with the goal of applying these ideas to contemporary phenomena. Students will ultimately use this material to drive the practical work of the class: to continue to refine their skills primarily as writers, but also as researchers, thinkers, and leaders. The primary assignments will be a series of short analytical essays, one longer researched analysis, and a collaborative service project: the creation of new Wikipedia pages to bring attention to unacknowledged and/or underreported issues, literature, and people in the People's Republic of China. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W32 Perspectives on the Humanities: Art Histories (4 Credits)*Typically offered Fall*

In 2017, three archaeologists came across a depiction of a hunt painted on a Sulawesi cave wall. Having established that the painting was 44,000 years old, the researchers debunked the long-standing notion that cave painting originated in Europe. This ascertainment has two important implications. First, it emphasizes the universality of art as a form of human expression. Second, some scholars surmise that similarities between the cave paintings in Indonesia and Europe indicate the existence of earlier prototypes in Africa, where humanity originated. That is, while each Indonesian and European cave painting is unique unto itself and thus an exemplar of the particular, each simultaneously reflects something fundamental about the archetypes on which they were modeled, an essentiality that represents the universal. In this way, the Indonesian and European cave paintings embody the concept of the *Urphänomen* introduced by the German writer Johann Wolfgang von Goethe. In this course, we'll explore art as a medium of thought and emotion common to all civilizations while evaluating Goethe's idea of the *Urphänomen*. Using the resources of Shanghai's art museums as our foundational "texts," we will comparatively examine works on exhibition at these institutions. After exploring the significance of these pieces as they've been informed by the aesthetic and broader cultural traditions to which they respectively belong, we will contemplate these objects as artefacts and/or as archetypal representations in light of how they are situated within other contexts beyond China's borders. In so doing, we'll gain an understanding of the cultural significance of these works and/or their motifs across various disciplines, cultures and eras while ascertaining the extent to which they testify to the *Urphänomen*'s existence. Building upon what students learned in Writing as Inquiry, this course will further develop their analytical, creative and research skills through analytical essays and a digital research project. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W33 Perspectives on the Humanities: World-Building (4 Credits)*Typically offered Fall*

This course will explore Margaret Atwood's idea of creating an "Utopia." We will imagine building a better world—the roles governance, science, and the arts would take. Instead of relying on science fiction as escapism or impossible fantasy, Atwood describes her speculative fiction as exploring Utopias: the liminal space between utopia and dystopia. Literary theorist Kenneth Burke argues that story features characters with a purpose (goal) encountering passion (trouble) and achieving perception (epiphany). Might we apply that story arc to our own human experiences, and by extension to social evolution? How might scientific advancements impact our efforts to build an ideal society? How do politics and law weigh personal freedoms against societal needs? How might globalization and translanguaging shape an Utopia? This course will extend writing skills and concepts learned in Writing as Inquiry by focusing on critical theory (including gender and critical race theory), close readings, and analytical essays. Texts will include fiction, film, and art to analyze how Utopias are translated across genres. A capstone project asks writers to explore humanity's potential via a research-based creative project. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCCF-SHU 101W34 Perspectives on the Humanities: (Mis)Adventures in Language (4 Credits)

Typically offered Fall

We have created texts all our lives. You may have written down a grocery list for yourself, sent a brief text message to a friend, posted a WeChat moment, revised a draft of an academic essay, written a scientific lab report with data and figures, or edited your resume for a job application. When someone says, "I'm not a writer," they usually mean that they don't write novels or movie scripts or academic journal articles. But we are all writers. Given a broad definition of what a text can be, we will empower ourselves to analyze the texts that we encounter and create in the world around us. To discuss any text is an act of translation, an interpretation from one way of communicating to another—from one language, dialect, discourse community, rhetorical situation, or set of genre conventions to another. As a research and writing community, we will build a shared language for discussing language itself across contexts. We will become familiar with several foundational concepts in the fields of rhetoric, composition studies, sociolinguistics, and translation studies. For example, we will introduce the concepts mentioned above, alongside the concepts of dialect, language variation, linguistic prescriptivism and descriptivism, and standardized ways of communicating. We will explore language explicitly by way of one special theme each week. Such weekly themes might include cultural identity, gender, sexuality, crime, religion, offensive language, journalism, scientific communication, figures of speech, historical narratives, literature, censorship, and comedy. Your assignments will primarily be academic essays, and will culminate in a final project in which you create and analyze a multimodal text with a specific goal, audience, and genre of your choice. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCCF-SHU 101W35 Perspectives on the Humanities: Science Fiction in Three Media (4 Credits)

Typically offered Fall

This course introduces students to some of the major topics and themes in so-called science fiction (SF), using SF stories to further develop the major skills trained in Writing as Inquiry: analytical reading, argumentative writing, and library research. Students will read short stories, watch episodes from theatrical serials, and listen to radio plays (both complete dramas and episodes from serials); students will attend to the ways that these three different media not only shape the narrative choices of the artists, but also inflect familiar themes like alien contact, interplanetary travel, and artificial intelligence. Furthermore, nonfiction readings will introduce students to three complimentary approaches to understanding SF: the formal study of narrative texts, the political economy of mass media, the historicist study of commercial genres. Students will use these approaches in prompted writing assignments, which will range from shorter exercises to a medium-length analytical essay, and which will include a major research essay. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCCF-SHU 101W36 Perspectives on the Humanities: Speaking of Sickness (4 Credits)

Typically offered Fall

This Perspectives on the Humanities course will explore narratives of illness and health, drawing upon works of literature and art to ask questions about the boundaries of the body, the relationship between the body and the self, and the role of social and cultural factors in shaping our perceptions of illness. How does the language used to talk about a disease affect our perception of those who have it? Are there aspects of being ill that cannot be captured in words? How might gender, race, and social status inform a patient's approach to healing? What happens when an individual's experience of being a patient or physician does not fit into traditional narratives about those roles? In discussing these questions and others like them, we will touch upon multiple academic fields, from history and anthropology to disability studies. Readings will encompass memoirs by patients and physicians, historical and contemporary case studies, and works of criticism related to narrative structure and the language of medicine. Key authors include Daniel Defoe, Susan Sontag, Audre Lorde, Elaine Scarry, and Arthur W. Frank. This course will build upon skills and concepts introduced in Writing as Inquiry, such as evaluative reading and writing techniques, rhetorical organization, and strategies for effective research. Primary writing assignments will be analytical essays, at least one of which will involve a research element. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W37 Perspectives on the Humanities: Drinking the Kool-Aid and Other Cult Stories (4 Credits)*Typically offered Fall*

This course traces motifs and common narrative threads in the stories of those who are drawn into or victimized by cults. We will explore how real and fictional cults are depicted in literature and film, closely studying such works as Emma Cline's novel *The Girls*, Haruki Murakami's work of literary journalism *Underground*, *The Tokyo Gas Attack* and the Japanese *Psyche*, the Netflix docuseries *Wild Wild Country*, Ari Aster's folk horror film *Midsommar*, and the psychological thriller *Martha Marcy May Marlene*. Our critical analysis and interpretation of these works will be aided by interdisciplinary readings that will give us a better understanding of how cults function and explore the controversy of the "cult" label itself. As we delve into the stories of cults, we will examine perennial themes that distinguish these narratives such as the critique of mainstream society suggested by the cult's formation and ability to attract followers, the lure of living in a utopian community for those seeking emotional connection, the role of charismatic, authoritarian leaders who exploit their followers, the tensions between cult members and the dominant culture and what their conflicts reveal about each group's ideals and prejudices, and the extent to which cultish groups are tolerated or repressed by their local communities and governments. This course will extend writing skills and concepts learned in *Writing as Inquiry*, focusing on critical theory, research, and academic writing and expression in the humanities. The primary assignments will be analytical essays. Prerequisite: C or better in WRIT-SHU 101 or 102 *Writing as Inquiry*. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W38 Perspectives on the Humanities: Music is the Message (4 Credits)*Typically offered Fall*

Music is the Message is an academic writing course that teaches critical research and writing skills using music to explore contexts including identity, place, and time. In a broad and intersectional sense, we will consider themes of gender, race, sexuality, politics, and protest in music from fixed space in time, imagined space, and diasporic space. For example, our unit on Afrofuturism presents a performance genre of fantastical empowerment for Black people, redefining Black history and futures on earth and beyond. To deepen our ability to personally reflect on the role of music in our lives and society, we will read academic and popular articles that critically examine musical artistry and performance to reveal the role of musicians and audience as active participants in historical activism and imagination. Additional units include Chinese pop, K-pop and gender; hip hop and sexuality; and jazz and cultural diplomacy. Course readings utilize the following research methods: discourse analysis, close reading, qualitative (e.g.: interview, participant observation, content analysis), journalistic, historical and ethnomusicology. This course will extend writing skills and concepts learned in *Writing as Inquiry*, focusing on critical theory, research, and academic writing and expression in the humanities. The primary assignments will be analytical essays. Prerequisite: C or better in WRIT-SHU 101 or 102 *Writing as Inquiry*. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W39 Perspectives on the Humanities: Hearing the Moving Image (4 Credits)*Typically offered Fall*

This academic writing course will build critical reading, listening, and writing skills by exploring what makes sound and music so necessary to our engagement with moving images. Through writing about a wide range of media texts, including Hollywood and Chinese film, television, and animation, Triple-A and indie video games, we will pursue questions about power, the environment, technology, narrative, representation, and global identity. For instance, what does the urban soundscape in Ridley Scott and Vangelis's *Blade Runner* have to say about our fraught relationship with technology both now and in the future? By contrast, how do musical depictions in Peter Jackson and Howard Shore's *The Lord of the Rings* film trilogy construct pre-industrial local cultures and what is natural? In addition, we will historicize and interrogate the Western gaze toward China in light of Edward Said's *Orientalism* by investigating how music and sound produce ideas about the "East," such as in Ang Lee and Tan Dun's *Crouching Tiger, Hidden Dragon* (####). We will also theorize how to read and write about K-, J-, and C-pop music videos especially for the performance of gender, sexuality, and global eclecticism. This course extends the intellectual, research, and writing skills introduced in *Writing as Inquiry* and requires no prior training in music performance or analysis. Throughout, students will pursue writing topics of their choice in a series of analytical essays demonstrating compelling arguments, nuanced readings of scenes, genres, and styles, an adroit use of rhetorical strategies for a variety of audiences, and the careful selection and framing of primary sources and scholarship. Prerequisite: C or better in WRIT-SHU 101 or 102 *Writing as Inquiry*. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCCF-SHU 101W40 Perspectives on the Humanities: Writing the World (4 Credits)*Typically offered Fall*

This globe-trotting course explores the politics of representation in English-language journalism and literature about the world outside of America. Drawing on both scholarly criticism and works of journalism and creative nonfiction, we will examine how American norms shape knowledge and literary production about the rest of the world. We will decenter the United States as the arbiter of the news media and publishing, comparing and contrasting works by American and non-American authors in and about 'Asia' and the 'Middle East.' Our travels will take us to countries such as China, Japan, India, Vietnam, Egypt, Lebanon, Iraq, and Iran. We will not only look at the place from where an author writes, but also from where the audience reads. How does the adage of 'Write what you know' hold up when a writer does not occupy the dominant positionality in the Anglophone world? How might we apply these concepts to problematize the ways in which we think and write about China and Chineseness? Students will write in a variety of public-facing critical, creative, and journalistic genres, including an op-ed, satirical essay, book review, and a decolonizing profile of Shanghai. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry.

Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCCF-SHU 101W41 Perspectives on the Humanities: Digital Identities (4 Credits)*Typically offered Fall*

Identity is often imagined as tied to the body—to the color of our skin, the sound of our accent, or the way that we inhabit gender. Yet in the digital domain, bodies become tenuous or even inexistent; writing—in text, sound, film, and hypertext—is everything. How then do individuals and communities use digital media to articulate their identities, tell their stories and imagine their futures? How do virtuality and multimedia transform identity formation, and what is the role of digital networks in creating new or reinforcing existing social groups? In this academic writing class, we will examine these and similar questions in digital fiction and nonfiction as we elaborate our research and analytical skills through the lens of theories of digital sociality, in-group formation, digital redlining, and algorithmic oppression. In so doing, we will sharpen our reading and writing skills across the various media of the digital: text, hypertext, image and sound. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCCF-SHU 101W42 Perspectives on the Humanities: Nothing New Under the Sun? (4 Credits)*Typically offered Fall*

Nothing New Under the Sun? is an academic writing course that teaches critical research, writing, and thinking skills through investigating the concept and value of the "new." Famously, innovation was already declared dead thousands of years ago with Ecclesiastes's ancient assertion, "There is nothing new under the sun." In fact, across literary, media, cultural, and theological structures, from teen rom-coms based on Shakespeare's plays to major world religions' reinterpretation of common biblical source texts, we can see recycling in action. On the other hand, we also find challenges to this narrative of the "same old" in theories of postmodernism, or new methods of structuring society like communism or democracy. In a city like Shanghai, there are things all around us that strike us as novel, from technology to buildings to fresh ways of interacting with each other. Or are these, too, in the words of contemporary poet Eileen Myles, just "old things, re-released"? Searching through comparative examples in literature, film, visual art, music, architecture, and religion, we will exercise our writing and critical interpretation skills in our attempt to get to the bottom of questions including: What makes something "new," and can it still be done? What is it about humans that causes us to revisit the same ideas or structures? And what is the value of chasing the "new," at its heart? This course will extend writing skills and concepts learned in Writing as Inquiry, focusing on critical theory, research, and academic writing and expression in the humanities. The primary assignments will be analytical essays and a digital expressions project. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W43 Perspectives on the Humanities: Attending to Attention - The Secret Method of the Liberal Arts (4 Credits)*Typically offered Fall*

A revolution is occurring in the ways we pay attention, demanding that we learn, unlearn, and relearn ways of attending across most aspects of contemporary life. To our aid, a liberal arts education trains students' attention—liberally and liberatorily—to “cultivate and practice the kinds of attention that will make them intelligent observers, diligent critics, and thoughtful actors on the stage of human life” (Sullivan). This academic writing course teaches critical research and writing skills through exploring how different kinds of attention shape our various ways of knowing, thinking, and doing. Our inquiry-driven writing within the liberal arts tradition will organize our survey of various conceptions of attention and will aid our building of cutting-edge vocabularies for attention's situational dynamics from the experienter's point of view (e.g., the kind of attention you're using while reading this). Guiding texts will span the humanities, sciences, arts, and the technological frontier, providing theories and case studies to help us ask: What are the means by which attention is formed in any given situation? How is attention constructed, structured, and variably reconfigured? Students will select situations of their interest where the type of attention used determines differences in outcomes. Writing and research assignments will scaffold the process of conducting attention analyses. The final essay culminates your work as a participant-researcher analyzing and creating modes of attention optimized for goals in a given situation. Ultimately, students will be learning two interrelated fundamental methodologies of the liberal arts: 1) the conventions of academic reading, writing, and researching, and 2) the foundational skills of attention that are implicit to all academic work, disciplinary knowledge, and social action. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W5 Perspectives on the Humanities: Stories of the End Times (4 Credits)*Typically offered occasionally*

In this course, we will explore the human apocalyptic imagination and its manifestations in sacred texts, in literature, and in film. We'll read novels and watch films that portray apocalyptic devastation in methods both real and unreal. Texts may include excerpts from the sacred texts of religious traditions, McCarthy's *The Road*, Liu's *The Dark Forest*, Wells's *The Time Machine*, and Kolbert's *The Sixth Extinction*; films may include Honda's *Gojira* and Park's *Snowpiercer*, among others. We'll consider the questions asked (and sometimes answered) by each story we examine: What are their visions of human nature, historical progress, the relationship between humans and divine? What explicit or implicit assertions do these stories make about gender, race, and class? How can the apocalyptic be used as a method of persuasion? What do our stories of the end tell us about how we live now? This course will extend writing skills and concepts learned in Writing as Inquiry, focusing on critical theory, research, and academic writing and expression in the humanities. The primary assignments will be analytical essays. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 101W9 Perspectives on the Humanities: Literature and Its Critics (4 Credits)*Typically offered Fall*

Although the concept of literature as we know it is fairly recent and originally culture-specific, the phenomenon of what we would today call literature is universal with a history that goes back perhaps to the beginning of human civilizations. What is literature? How is it traditionally conceived in the West as well as in China? What makes it controversial? How do we understand the repeated attacks and defenses or the lack thereof in a particular cultural tradition? What do we mean when we call a writer or work of literature great? What is the function of criticism in a modern society? This course will provide an opportunity for students to explore large questions such as those via a consideration, first, of the classical debates surrounding the nature and value of poetry, art, or theater raised by prominent Western thinkers and writers. We will then look to ancient China for possible, often implicit answers to these questions and challenges through a study of the first poetic anthology of China, the *Shi jing*, often translated as *The Book of Songs*. Finally, the course will introduce the modern notion of literature and help students understand it in relation to the changed conditions of modernity. Collectively, we will examine a major work of fiction as a test case whereby to rethink the question of the nature, value, and function of literature and criticism in a modern context. Students will build on the skills first introduced in Writing as Inquiry and practise modes of inquiry central to the humanities through class discussions, forum exchanges, and the writing of essays. Prerequisite: C or better in WRIT-SHU 101 or 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

CCCC-SHU 130 Screening Childhood (4 Credits)*Typically offered occasionally*

Childhood is a persistent topic of countless films and other screen-based media products worldwide, with an intended audience not limited to children. The focus of this course is not children's films per se, but “childhood” in world cinema and in popular culture, discussed from an array of historical and theoretical perspectives. The concerns and topics of the course include: the intimate relationship between early cinema and childhood (and by extension, childhood and modernity); conceptions and representations of childhood in different cinematic (and cultural) traditions and historical periods; ideological critiques and other theoretical models in engaging screen and media portrayals of childhood, including feminism, gender and sexuality studies, postcolonial studies, and child studies. Weekly screenings will feature early actualities, silent narrative film, musical, documentary, animation, and more. Students are expected to actively take part in discussions and presentations, and complete a final research paper. Fulfillment: general elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Data Science (DATS-SHU)

DATS-SHU 200 Topics in Machine Learning (4 Credits)

Typically offered Fall and Spring

Topics in Machine Learning courses are designed to explore a variety of subject matters within the dynamic fields of computer science and data science. The course content is adapted to the expertise and research interests of the current instructor, ensuring a relevant and up-to-date curriculum. Throughout this course, students will delve into a specific topic within computer science or data science, addressing both practical and theoretical aspects. Students will learn about the topic through lectures, hands-on assignments, as well as reading and discussions. Prerequisite: CSCI-SHU 11 Introduction to Computer Programming or placement test AND MATH-SHU 131 Calculus AND MATH-SHU 140 Linear Algebra/ MATH-SHU 141 Honors Linear Algebra I. Fulfillment: CS elective; DS AI concentration.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI

DATS-SHU 235 Information Visualization (4 Credits)

Typically offered Fall

Information visualization is the graphical representation of data to aid understanding, and is the key to analyzing massive amounts of data for fields such as science, engineering, medicine, and the humanities. This is an introductory undergraduate course on Information Visualization based on a modern and cohesive view of the area. Topics include techniques such as visual design principles, layout algorithms, and interactions as well as their applications of representing various types of data such as networks and documents. Overviews and examples from state-of-the-art research will be provided. The course is designed as a first course in information visualization for students both intending to specialize in visualization as well as students who are interested in understanding and applying visualization principles and existing techniques. Fulfillment: CS Electives, Data Science Data Analysis Required; Data Science Courses for Concentration in Artificial Intelligence. Prerequisite or Co-requisite: Data Structures. Students must be CS or DS major and have junior or senior standing.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI
- SB Crse Attr: NYU Shanghai: Data Science Required Data Analysis

DATS-SHU 236 Mathematical Foundations of Data Science and Machine Learning (4 Credits)

Typically offered Spring

This is an advanced topic course for undergraduate students interested in the modern mathematics of data science and machine learning. Tentative topics include dimension reduction and data visualization, the geometry of high dimensional data, and optimization-based data analysis. Topics may change every year to reflect the current research trends. The course requires an excellent understanding of advanced calculus, linear algebra, and probability theory. Programming skills and knowledge in optimization are strongly recommended but not required. Prerequisite: DATS-SHU 234 Mathematical of Statistics (used to be MATH-SHU 234). Fulfillment: Math Constrained Math elective or additional Math elective; Honors Math elective; Data Science Concentration in AI.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

DATS-SHU 240 Introduction to Optimization and Mathematical Programming (4 Credits)

Typically offered occasionally

This is an introductory course to introduce the model building and mathematical programming for the infrastructure systems optimization. This course prepares students with the systems-level approach to the analysis, design, operation and management of civil infrastructure systems. Topics include model building, linear programming, nonlinear programming, integer programming, network optimization models and the use of algebraic modeling languages for describing and solving large-scale optimization models. Pre-requisites: ICP; AND Calculus (MATH-SHU 121) or Honor Calculus (MATH-SHU 201). Fulfillment: CS Electives, Data Science Data Analysis Required; Data Science Courses for Concentration in Artificial Intelligence.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Science Elective
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in AI
- SB Crse Attr: NYU Shanghai: Data Science Required Data Analysis

DATS-SHU 369 Machine Learning with Graphs (4 Credits)*Typically offered every year*

Complex data can be represented as a graph of relationships between objects. Such networks are a fundamental tool for modeling social, technological, and biological systems. This course focuses on the computational, algorithmic, and modeling challenges specific to the analysis of massive graphs. By means of studying the underlying graph structure and its features, students are introduced to machine learning techniques and data mining tools apt to reveal insights on a variety of networks. Topics include: representation learning and Graph Neural Networks; algorithms for the World Wide Web; reasoning over Knowledge Graphs; social network analysis. Prerequisite: CSCI-SHU 360 Machine Learning or MATH-SHU 235 Probability and Statistic Fulfillment: CS Electives, and DS course for AI concentration.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Computer Science Elective
- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in AI

DATS-SHU 377 Computer Vision (4 Credits)*Typically offered every year*

Computer Vision is concerned with enabling computers to interpret and understand visual information from the world around us. It has become ubiquitous in our society, with applications in search, image understanding, video surveillance, medical image analysis, drones, self-driving cars, and smart manufacturing. In recent years, developments on deep learning have greatly advanced the performance of various computer vision tasks. The course will start by looking the established area of geometric vision. It will then provide a deep dive into details of neural network based deep learning methods for computer vision and its profound impact on task in recognition, segmentation, and many other vision problems. Prerequisite: CSCI-SHU 101 Introduction to Computer Programming and (CSCI-SHU 360 Machine Learning or MATH-SHU 235 Probability and Statistic or MATH-SHU 238 Theory of Probability) Fulfillment: CS elective; DS Concentration in AI.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Computer Science Elective
- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in AI

DATS-SHU 420 Data Science Senior Project (4 Credits)*Typically offered Fall*

The purpose of the Senior Project is for the students to apply the theoretical knowledge they acquired during the Data Science program to a concrete project in a realistic setting. During the semester, students engage in the entire process of solving a real-world data science project. It requires students to pursue a long-term, mentored learning experience that culminates in a piece of original work. At the end of the semester, the proposed work comes to fruition in the form of a working software prototype, a written technical report, and an oral presentation at a capstone project symposium. Prerequisite: senior standing and primary major in Data Science. Fulfillment: DS Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Data Science Required Senior Project

DATS-SHU 997 Independent Study: Data Science (2-4 Credits)*Typically offered Fall and Spring*

Prerequisite: department consent. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

Economics (ECON-SHU)

ECON-SHU 1 Principles of Macroeconomics (4 Credits)*Typically offered Fall and Spring*

Focuses on the economy as a whole (the "macroeconomy"). Begins with the meaning and measurement of important macroeconomic data (on unemployment, inflation, and production), then turns to 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 banking system and the Federal Reserve; the role of government policy; and international trade. Prerequisite: None. Fulfillment: Economics Major Required Economics Courses; Social Science Major Foundational Courses; Data Science Major Courses for Concentration in Economics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in Economics
- SB Crse Attr. NYU Shanghai: Economics Required
- SB Crse Attr. NYU Shanghai: Social Science Foundational Course

ECON-SHU 3 Microeconomics (4 Credits)*Typically offered Fall, Spring, and Summer terms*

Economics studies how agents make decisions under conditions of scarcity and uncertainty. This course provides a rigorous introduction to economics, with special emphasis on microeconomics. It will introduce you to economics as a discipline and as a way of thinking. It will also provide you with a set of tools, which will be very useful in other economics courses. We will first study the behavior of individual consumers and firms. Then we will give you some insight into how markets work and whether market outcomes are desirable. We will also look at situations in which the firm is a monopolist, or competes with a limited number of rivals. Some key concepts we will introduce include economic incentives, marginal analysis, opportunity cost (which costs matter), market efficiency (what does it mean for a market to work) and strategic behavior (how to predict and respond to your rivals' decisions). The tools that you will be acquainted with in this class are fundamental for most upper division courses of the Economics major as well as classes in Finance, Accounting and Marketing. Prerequisites: Calculus or above. Fulfillment: Economics Major Requirements; IMB Major Business Elective; Social Science Major Foundational Courses; BUSF/BUSM Business Core Courses; Data Science Major Concentration in Finance/Marketing/Economics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Business Core
- SB Crse Attr: NYU Shanghai: BUSM Business Core
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Economics
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Finance
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Marketing
- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

ECON-SHU 10 Intermediate Microeconomics (4 Credits)*Typically offered Fall*

Rigorous examination of consumer choice, profit-maximizing behavior on the part of firms, and equilibrium in product markets. Topics include choice under uncertainty, strategic interactions between firms in noncompetitive environments, intertemporal decision making, and investment in public goods. Prerequisites: (ECON-SHU 2 Principles of Microeconomics or ECON-SHU 3 Microeconomics) and (MATH-SHU 131 Calculus or ECON-SHU 5 Math for Econ 1: Optimization). Fulfillment: Economics Major Requirement; Social Science Major Focus Courses Political Economy - 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 151 Sustainable Business Practices and Development Economics (4 Credits)

The course is structured to provide students with a series of coherent modules. The first module introduces concepts in sustainable development economics and complexity theory. The main idea is to incorporate novel ideas into more traditional growth theories. We use a broader perspective on development, using concepts from complexity theory and other disciplines to provide a solid theoretical framework. Students are expected to tackle sophisticated theoretical papers in this module. The second module explores the role of companies in promoting sustainable ideas by transforming the socioeconomical environment, analyzing the possibility that private firms can be promoters of change by changing internal management practices. We use a Business as Usual to a Future Sustainable Business framework as sketched below and explore the role of firms in changing the international business context - one of the case studies for this module explores changes in a multinational bank that introduced a credit score system based on sustainability of the agricultural sector. Prereq for ECON-SHU 151 is ECON-SHU 1 Principles of Macroeconomics or ECON-SHU 3 Microeconomics. Fulfillment: Economics elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 200 Topics in Economics: (4 Credits)*Typically offered Fall and Spring*

Prerequisite: None. Fulfillment: 1) Topic: Economics of Gender: Economics elective; Social Science Political Economy 200 level; 2) Topic: Financial Crises & Econ. Policy: Advanced Economics elective; 3) Topic: Market Design: Economics elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ECON-SHU 202 Intermediate Macroeconomics (4 Credits)***Typically offered Spring*

The course will cover a broad range of topics in macroeconomic theory, empirics and policy. Among the issues to be discussed are the business cycle theory, economic crises, economic growth, IS-LM model, open economy, inflation and unemployment, dynamic model of aggregate demand and supply, stabilization policy, government debt and budget deficits, money supply, central banking. The banking system: competition and stability, banking growth nexus, prudential regulation and the role of the financial sector in the macroeconomics model. Prerequisites: ECON-SHU 1 Principles of Macroeconomics or ECON-SHU 251 Economics of Global Business. Fulfillment: Economics required; Social Science Focus Political Economy 200 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 208 Money and Banking (4 Credits)*Typically offered occasionally*

Money supply; banking as an industry; banks as suppliers of money; the Federal Reserve System and monetary control; monetary theory; and contemporary monetary policy issues. Prerequisite: ECON-SHU 1 Principles of Macroeconomics OR ECON-SHU 251 Economics of Global Business OR BUSF-SHU 202 Foundations of Finance. Fulfillment: Economics elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 210 Market Design (4 Credits)

The course is about design of markets, not only in the sense of auctions and matching markets, but also in the broader sense of designing allocation rules in general. We aim to understand why some markets need to be designed, and what important design elements are. This is particularly relevant for the digital economy where market design is often programmed into smart contracts, and market participants may be computational agents. The course includes a series of assignments that build towards writing a short research paper for the course. The topic of the research paper should be related to the material presented in the course, but must go into more depth with selected issues. Prerequisite: ECON-SHU 3 Microeconomics or ECON-SHU 216 Introduction to Game Theory. Fulfillment: Economics Advanced elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Advanced Elective

ECON-SHU 216 Introduction to Game Theory (4 Credits)*Typically offered Fall and Spring*

This course introduces students to the basic concepts and tools of game theory and their applications to real-life situations. It starts with basic terms such as strategies, payoffs, and equilibrium, and then goes through different types of games, such as extensive form games, normal form games, dynamic games and games with incomplete information. The second half of the course covers a selection of topics closely related to the real world, such as cold war, voting, bargaining and auction. Students will be able to analyze the situation, frame it in terms of the tools discussed, and understand the strategies used in the interaction. Pre-requisites: Calc (MATH-SHU 131 OR 201). Fulfillment: Economics Major Electives; IMB Major Business Elective Courses; Mathematics Major Additional Mathematics Electives; Honors Mathematics Major Mathematics Electives; Social Science Major Methods Courses; Business and Finance Major Non-Finance Electives; Business and Marketing Major Non-Marketing Electives

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

ECON-SHU 217 Topics in Economics: Financial Technology (4 Credits)

The course examines the development of money, banking and financial technology (fintech). Prerequisite: ECON-SHU 1 Principles of Macroeconomics. Fulfillment: Economics Major Advanced Economics Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Advanced Elective

ECON-SHU 218 International Trade and the Chinese Economy (4 Credits)*Typically offered Fall and Spring*

This course is designed to combine basic trade theory with its practical relevance in China to help students better understand the international economic activities in developing countries. We will investigate the causes and consequences of trade, discuss the role of multinational corporations and foreign direct investment in driving economic growth and wage inequality, and study countries' motives for regulating international trade and the effects of trade policy on economic welfare. We will also focus on China's gains and losses from opening up to trade and investment, on the dual impacts of the rise in exports from China on the U.S. employment and consumers, on the distributional effects of tariff cuts in developing countries, and so on. Prereq for ECON-SHU 218 is Microeconomics and (Principles of Macroeconomics or EGB). Fulfillment: Core Curriculum Social Science Perspective on China; Social Science Major Focus Courses Political Economy - 200 level; Economics electives, BUSF & BUSM major China Business Studied.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

ECON-SHU 219 International Economics (4 Credits)*Typically offered occasionally*

The course examines both macro and micro aspects of globalization. This course begins with the theory and practice of international trade: comparative advantage, trade policy and trade agreements as well as economies of scale, intra-industry trade, global value chains and offshoring. The course also studies the effects of China's integration into the world economy and the impact of US-Sino trade war and Brexit. The second part of the course covers the role of money and finance in the global economy, including international tax arbitrage and tax havens, the role of the exchange rate, interest parity, the determinants of exchange rates; exchange rate regimes, and international financial crises. Prerequisite: Introductory Macroeconomics (ECON-SHU 1 or ECON-SHU 251) and Introductory Microeconomics (ECON-SHU 3). Fulfillment: Economics Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 221 China's Financial System (4 Credits)*Typically offered every year*

This course introduces the institutions and instruments of the Chinese financial system as well as relevant macroeconomic policy tools as they play a role in the broader Chinese economy. The goal of the course is to provide students with a comprehensive understanding based on monetary and financial economics from a comparative and historical standpoint. The teaching proceeds in three stages: (1) introductory redux in monetary and financial economics (2) historical and comparative overview of the evolution of China's financial system and macroeconomic policy in the context of international financial arrangements (3) in-depth analysis of current topics in the field. Some of the topics covered include the Chinese banking system, RMB exchange rates, Chinese stock markets and bond markets, mutual fund and hedge fund industry, security dealers and money markets, Chinese derivative markets, green finance arrangements, real estate markets and state owned companies. The similarities and differences between Chinese financial markets and more developed financial markets will be highlighted. Prerequisite or Co-requisite: Principles of Macroeconomics (ECON-SHU 1 or equivalent) or Economics of Global Business (ECON-SHU 251 or equivalent). Fulfillment: CORE IPC; Economics Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

ECON-SHU 222 Cooperation, Coordination, Collective Action (4 Credits)*Typically offered every year*

As social animals, cooperation has been vital to human beings' success. Yet in contexts as mundane as cleaning or impactful as climate change, people often fail to work together, even for mutual benefit. Using game theory as a launching point, with detours in neuroeconomics, behavioral economics, political economy, and elsewhere, this course considers the challenge of motivating collective action at different scales, from cooperation in small societies, to mass action undertaken by strangers united by a common cause. Ultimately, this course is designed to help students spark collective action when they feel it is needed by providing a suitable framework for analysis and an environment to discuss and refine ideas, eventually resulting in a final project. Prerequisite: Sophomore standing. Fulfillment: Econ elective; Social Science Focus Political Economy 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 225 Advanced Economic Theory (4 Credits)*Typically offered Fall*

Advanced Economic Theory is focused on the effect of uncertainty on individual decisions, on the design of optimal contracts, and on competitive markets. Compared to Game Theory, we consider situations where agents have no strategic power, or where the strategic power is entirely in the hands of one party (for contract design). The course is divided into three blocks. In the first block, we review the standard model of expected utility that is used in economics, we investigate its foundations in absence of objective probabilities, and we study two fundamental applications at the core of macroeconomics and finance. In the second block, we study applied problems of information asymmetry in bilateral interactions, and the optimal contractual solutions for the uninformed party. In the third block, we analyze the effect of uncertainty on general equilibrium in multi-period competitive markets. Basic knowledge of multivariate calculus constitutes a necessary mathematical background to follow the course. Pre-requisites: ECON SHU 3 Microeconomics Fulfillment: Economics Major Advanced Economics Electives; Social Science Major Focus Courses Political Economy - 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Advanced Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 232 Blockchain, Cryptocurrency, and Money (4 Credits)*Typically offered Fall*

In this course, we will learn all about Blockchain and money. (1) We will first investigate questions about how to make money and how money used to be made; who can and who can't make money in the modern economy; what money is and how money moves; how to measure money and how to control money. (2) Second, you will learn why, until the arrival of Blockchain, it has been so difficult to make new digital money; what Blockchains really are; how Blockchains work and when Blockchains don't work; how to raise money and how to make new digital money with Blockchains. You will thereby gain a solid and detailed technical understanding of Blockchain and the Blockchain-enabled financial technology. (3) Third, you will also learn about the most important current and future non-blockchain financial technologies in China, including the People's Bank of China's digital yuan (e-CNY) project. Topics to be covered include: definition of money, functions of money, the evolution of money and digital money, money creation, payment systems, Alipay, WeChat Pay, financial technology (FinTech), distributed ledgers, Blockchain technology, digital signatures, basic cryptography, cryptocurrencies, cryptocurrency market, Bitcoin, Bitcoin security and quantum computing, consensus, Proof-of-Work (PoW), Proof-of-Stake (PoS), the economic limits of consensus protocols, initial coin offerings (ICO), online peer-to-peer lending (P2P), China's digital currency and electronic payment system (DC/EP), digital yuan, e-CNY, and central bank digital currencies (CBDC). Prerequisite: ICP, or ICS, or Creative Coding Lab Fulfillment: CORE STS; Economics Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

ECON-SHU 238 History of Modern Economic Growth: Exploring China From a Comparative Perspective (4 Credits)*Typically offered Fall*

This course has two goals: 1) to provide an understanding of economic development and growth with applications to the Chinese economy and Chinese institutions, and (2) to learn how to analyse major policies in China's economic development in both oral and written form. China has experienced rapid institutional changes and achieved high growth rates. We start with (i) the pre-modern and early-modern historical background of this transition process and then move on to analyse (ii) the roots and pattern of economic growth in modern China. Topics include: The great divergence between poor and rich countries; introduction to global economic history; why the industrial revolution did not take place in China's Yangtze River Delta first; economic catch up by the rest of the West; state-led big push industrialization; the ancient Chinese economy's high-level equilibrium trap; the Needham Question; the Chinese economy prior to 1949; modern China's early reform era 1949-78; the developmental state; market transition post-1978; modern Chinese growth and structural change. Prerequisite: None. Fulfillment: CORE SSPC or IPC; Economics elective; GCS elective The Politics, Economy, and Environment of China; Social Science Focus Political Economy 200 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

ECON-SHU 239 China's Economic Transition (4 Credits)*Typically offered every year*

Over the past forty years, China has transitioned from a poor, inefficient, and closed economy to an upper-middle income country and the world's largest trading nation. This course introduces the key institutional and economic reforms of China since 1978 and their contributions to China's economic development. We will examine the reforms in the pivotal sectors, including agriculture, industry, banking, and international trade, all of which are important steps to improve the overall efficiency and productivity of the Chinese economy. We will also discuss the current challenges facing China to maintain sustainable growth, such as problems regarding demographic structure, state-owned enterprises, government debts, etc. Prerequisite: This course assumes no prior background in economics. However, if you are already familiar with basic algebra and basic calculus, supply and demand curves, basic economics concepts, it will help you to understand this course better. Prereq: None. Fulfillment: CORE IPC; Economics Elective; Social Science Focus Political Economy 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 251 Economics of Global Business (4 Credits)*Typically offered Spring*

The objective of this course is to provide future decision-makers with a systematic understanding of critical aspects of economic development and the global business environment. We will examine the basic workings of the national economies (macroeconomics) and then explain the role of international trade and international finance. We show how the forces of globalization affect international business, down to the impact on the future careers of NYU students. The challenges presented by tepid economic growth in Europe, a soft landing in China, and the changing dynamics in the US, and the long run prospects for global economic growth and development are discussed. Pre-requisite: ECON-SHU 150 or ECON-SHU 3 Fulfillment: Economics required; IMB Business Foundation course; Social Science Foundational course; BUSF/BUSM Business Core course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Business Core
- SB Crse Attr: NYU Shanghai: BUSM Business Core
- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: IMB Required Business Foundation Course
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

ECON-SHU 255 Political Economy: Foundations and Recent Applications (4 Credits)*Typically offered every year*

This is a course on political economy introducing students to (1) the social choice foundations of political economy and (2) more recent approaches that use tools from economics. Overall, the course addresses some of the basic approaches to the interaction of individuals, firms, markets and non-market agencies such as governments, regulatory bodies and administration. First, we start with some theoretical approaches that stem from the social choice literature and highlight the tensions between individual preferences and collective choice. Then, we examine more recent empirical approaches to the interaction of economical and political agents. The course will broadly cover a selection of the following topics: autocracies vs democracies, the political economy of China, voting rules and electoral systems, political agency, government failure, collective action. Prerequisite: MATH-SHU 9 Precalculus Fulfillment: Economics elective; Social Science Focus Political Economy 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 301 Econometrics (4 Credits)*Typically offered Fall and Spring*

This course introduces the core set of statistical tools used by economists to analyze data and understand causal relationships among variables in order to assess economic theories and estimate policy impacts. Students will learn regression analysis that provides a framework for quantifying how a change in one variable affects another variable and for measuring the uncertainty/precision associated with those answers. Students will also learn how to use Stata, a statistical software package, to perform regression analysis. Upon completion of this course, students will be able to conduct their own empirical research using econometric methods. Prerequisite: BUSF-SHU 101 or MATH-SHU 233 or MATH-SHU 234 or MATH-SHU 235 or MATH-SHU 238 or SOCS-SHU 210 or SOCS-UH 1010Q or ECON-UA 18 or ECON-UA 20 or STAT-UB 1 or STAT-UB 103 or an equivalent statistics course. Fulfillment: Core AT; Economics Major Requirement; Social Science Major Requirement; Data Science Major Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Algorithmic Thinking
- SB Crse Attr. NYU Shanghai: Data Science Required Data Analysis
- SB Crse Attr. NYU Shanghai: Economics Required
- SB Crse Attr. NYU Shanghai: Social Science Methods Course

ECON-SHU 315 Competitive Analysis (4 Credits)*Typically offered occasionally*

This course takes a formal approach to analyzing the way firms make production and sales decisions and interact strategically with each other in the marketplace. We begin with a study of optimal pricing policies, including versioning, bundling, and related market segmentation strategies. In the second part of the course, we apply game theory to the study of oligopoly interaction, focusing on pricing and output strategies in a dynamic setting. Finally, we analyze strategies for firm dominance, especially through the deterrence of potential competition. The list of such strategies includes capacity expansion, product proliferation, and exclusive dealing contracts. The main goal of the course is to develop the basic intuition for pricing and other forms of strategic behavior on the part of firms, both when faced with complex patterns of consumer demand and when faced with strategic competitors. In-depth case analyses are adopted to showcase how the formal analyses enable an insightful understanding of complex real-life business decision makings and the relevant policy makings, as well as to provide students with opportunities to gain practical skills in conducting business analyses. Pre-requisite: Microeconomics Fulfillment: Economics Advanced elective; BUSF Non-Finance elective; BUSM-Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: Economics Advanced Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

ECON-SHU 317 The Economics of Discrimination (4 Credits)*Typically offered Fall*

This research-focused seminar course will first cover applied microeconomics with a strongly applied and empirical focus, and then introduce important theoretical and empirical papers analyzing and documenting different mechanisms of gender inequality. Topics covered will include micro-econometric research designs, theory and evidence about gender wage gaps, female educational attainment and human capital and family economics. If there is time, topics in gender and preferences will also be covered. This course is most appropriate for those with a strong grasp of microeconomics and econometrics, and with an interest in pursuing more advanced social science research projects on topics related to labor economics, inequality, and development economics. Economics majors and data science majors with a concentration in economics are particularly encouraged to enroll. Pre-requisites: ECON-SHU 3 Microeconomics OR ECON-SHU 301 Econometrics.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ECON-SHU 335 Development Economics (4 Credits)***Typically offered Fall and Spring*

This course will explore the macroeconomics and microeconomic foundations of economic development. We will discuss poverty, growth, development trap, distribution of income, demography and economic development, land and agricultural labor, health and nutrition, credit, insurance, intra-household allocation and gender, education. In these topics, we will ask: What determines the decisions of poor households in less-developed countries? What constraints do they face? What policies have been tried? What are the policy effect we have seen? Prerequisite: ECON-SHU 1 Principles of Macroeconomics or ECON-SHU 3 Microeconomics or ECON-SHU 202 Intermediate Macroeconomics or ECON-SHU 301 Econometrics. Fulfillment: Economics elective; Social Science Focus Political Economy 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Economics Elective
- SB Crse Attr. NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 336 Advanced Macroeconomics (4 Credits)*Typically offered every year*

This course provides macroeconomic frameworks to understand empirical patterns we observe and to think systematically about a range of policy problems that policymakers face. Topics covered include economic growth, business cycles, unemployment, money, inflation, payments, digital currencies, asset pricing, and bank runs, among others. For each topic, we will learn the theoretical model that explains the stylized facts, analyze the effects of exogenous shocks and policy changes, and study the optimal policy. The goal of the course is to help students start their own research in macroeconomics on a topic of their interest using the models they learned in the course. Prerequisite: ECON-SHU 3 (or an equivalent microeconomics course) and ECON-SHU 1 (or ECON-SHU 251 or an equivalent macroeconomics course) Fulfillment: Economics Advanced elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Economics Advanced Elective

ECON-SHU 342 Behavioral Economics (4 Credits)*Typically offered occasionally*

This course explores the effects of psychological factors on economic behavior. We will analyze the observations from the real world that cannot be well explained by classical economic models, and enrich the standard model by incorporating psychological phenomena, such as bounded rationality, loss aversion, time inconsistency and social preferences. We will present both theoretical models and empirical evidence from experiments or real world data. Applications include marketing, asset pricing, game theory, consumption and savings, and public policy. Prerequisites: Microeconomics courses: ECON-SHU 3 or ECON-SHU 150 and Statistics courses: BUSF-SHU 101 or MATH-SHU 20 or MATH-SHU 235 or MATH-SHU 170 or BIOL-SHU 42 or other equivalent courses in statistics. Fulfillment: Economics Major Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 351 Labor Economics (4 Credits)

Labor economics is the study of how labor markets work. We will investigate numerous aspects of the labor market, including the supply of and demand for labor, labor-market equilibrium, human capital, unemployment and job search, labor unions, compensating wage differentials, discrimination and immigration. We will use theory to understand facts and we will use facts to test and inform theory. Prerequisite: Microeconomics, Econometrics Fulfillment: Economics elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 353 Public Economics (4 Credits)*Typically offered occasionally*

This course investigates the role of the public sector in the economy. The aim is to understand the reasons for government intervention, the response of economic agents to the governments and assessing the welfare effects of these influences. The course covers tax policy and inequality, social insurance programs, public goods, and the interaction between different levels of government. Special emphasis is on current policy issues such as education reform, health care reform, income tax reform, and the role of behavioral factors in designing effective policy. Students are expected to be familiar with one variable calculus and optimization techniques at the level required in Intermediate Microeconomics. Prerequisite: ECON-SHU 3 Microeconomics. Fulfillment: Economics elective; Social Science Focus Political Economy 300 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 356 Antitrust and Competition Policy in the Digital Era (4 Credits)*Typically offered every year*

This course presents an economic analysis of monopoly power and effort to limit monopoly. This course will help students understand the theoretical rationale and empirical application for competition policy on the classical price-centric economy and recent new economy. Also, this course will provide students with an understanding of the practice of competition policy and antitrust regulation by examining recent prominent public and private antitrust cases, in topics of collusion and merger, network, two-sided market and optimal pricing, exclusionary practices in New Economy as well as Algorithm and Data. Prerequisite: ECON-SHU 10 Intermediate Microeconomics OR ECON-SHU 3 Microeconomics with the minimum grade B OR BUSF-SHU 202 Foundations of Finance OR BUSF-SHU 303 Corporate Finance OR CSCI-SHU 360 Machine Learning. Fulfillment: Economics elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

ECON-SHU 360 Experimental Economics (4 Credits)*Typically offered occasionally*

Predicated on the belief that economics, like other sciences, can be a laboratory science where economic theories are tested, rejected, and revised. Reviews the methodology of such laboratory experiments and investigates the use of experiments in a wide variety of fields. These include competitive markets, auctions, public goods theory, labor economics, game theory, and individual choice theory. Prerequisite: ECON-SHU 10 OR ECON-SHU 3. Fulfillment: Economics Major Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 368 Financial Economics (4 Credits)*Typically offered occasionally*

The last episode of financial crisis and the subsequent policy response provide excellent examples for students to learn about the functioning of financial markets and the importance of monetary policies and banking regulations. The course aims to provide an introduction to the role of money, financial markets, financial institutions and monetary policy in the economy, thus providing a solid foundation for further study or employment in the financial services industry. We consider institutions that either help financial markets work well or that interfere with the efficient performance of these markets. Our development includes a series of applications of principles from finance and economics that explore the connection between financial markets and the economy. The course covers many public policy issues and examines how central banks operate and how monetary policy is conducted. It will have a strong international orientation by examining monetary policy in many countries and possible reforms of the international financial system. For each of the addressed issues, we discuss current events reported in the financial press. Throughout this course, you will learn how to apply economic theories to research questions with proper methods, and will acquire the solid skills to read, comprehend, and develop critical thinking. Also, you will learn how to choose and approach an interesting economic research question by yourself from observed economic phenomena. By the end of the course, you will be able to communicate both orally and in written form your own economic research idea. Prerequisite: None. Fulfillment: Economics elective; Social Science Focus Political Economy 300 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy

ECON-SHU 400 Economics Capstone Seminar (2 Credits)*Typically offered Spring*

This course is designed to help undergraduate students to write an independent graduation thesis. It is also suitable for students who want to be prepared for Master's and PhD studies later on. The course is divided into two semesters, including academic writing, academic paper review procedure, and academic presentation. Prerequisite: Senior Standing and primary major in Economics. Fulfillment: Economics Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Economics Required

ECON-SHU 402 Advanced Econometrics (4 Credits)

This course introduces students to advanced topics in econometrics that are actively studied and increasingly used in applied economics (Public Finance, Labor Economics, Development Economics), Corporate Finance, and Marketing. With more economic examples/studies along with rigorous statistical analysis, students will see how the tools of econometrics can be applied in practice. The advanced topics covered include: classical linear regression, limited dependent variable models, panel data, GMM and MLE, randomized controlled trials, differences in differences, regression discontinuity design, big data, etc. Prerequisite: ECON-SHU 301 Econometrics OR BUSF-SHU 101 Statistics for Business and Economics OR MATH-SHU 235 Probability and Statistics OR MATH-SHU 238 Honors Theory of Probability OR MATH-SHU 234 Mathematical Statistics Fulfillment: Economics Major Advanced Economics Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Advanced Elective

ECON-SHU 416 Game Theory: Advanced Applications (4 Credits)*Typically offered occasionally*

This is an undergraduate level course in game theory, with a particular focus on the role of incomplete information in strategic interactions. Decision makers, for example, buyers and sellers, are typically differentially informed about the quality, quantity or value of the traded goods. Their decisions depend both on their conjectures of the other participants' strategies as well as their best available information about the value of their outcomes. This course introduces the mathematical models of simultaneous optimization from game theory which are used to understand interactive decision making. It covers the well-known stylistic models of informational asymmetries. Then, we discuss applications in biology, computer science, engineering and finance. The course utilizes a combination of formal approaches (theorems, proofs, problem solving) and discussions of recent journal articles. Topics include: Models of Information in Strategic Interactions, Moral Hazard, Adverse Selection, Bargaining, Oligopoly, Trade, Auctions, Cheap Talk, Persuasion and Information Design, Information in Mechanism Design, Applications in Biology, Potential Games in Engineering, Algorithmic Game Theory. Prerequisite: ECON-SHU 3 Microeconomics, or ECON-SHU 216 Introduction to Game Theory, or MATH-SHU 140 Linear Algebra, or MATH-SHU 235 Probability and Statistics, or MATH-SHU 238 Honors Theory of Probability, or BUSF-SHU 101 Statistics for Business & Econ Fulfillment: Economics advanced elective; Social Science Methods or Political Economy 400 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Economics Advanced Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

ECON-SHU 453 Economics Honors Seminar (2 Credits)*Typically offered Fall and Spring*

Prerequisite: department consent is required. Fulfillment: ECON Capstone Electives; Business China Business Studies (depending on topic); IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: IMB Business Elective

ECON-SHU 997 Economics Independent Study (2-4 Credits)*Typically offered Fall and Spring*

Prerequisite: None. department consent is required. Fulfillment: Economics Major Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Economics Elective

ECON-SHU 9239 China's Economic Transition (4 Credits)*Typically offered Spring*

Over the past forty years, China has transitioned from a poor, inefficient, and closed economy to an upper-middle income country and the world's largest trading nation. This course introduces the key institutional and economic reforms of China since 1978 and their contributions to China's economic development. We will examine the reforms in the pivotal sectors, including agriculture, industry, banking, and international trade, all of which are important steps to improve the overall efficiency and productivity of the Chinese economy. We will also discuss the current challenges facing China to maintain sustainable growth, such as problems regarding demographic structure, state-owned enterprises, government debts, etc. Prerequisite: This course assumes no prior background in economics. However, if you are already familiar with basic algebra and basic calculus, supply and demand curves, basic economics concepts, it will help you to understand this course better. Prereq: None. Fulfillment: CORE IPC; Economics Elective; Social Science Focus Political Economy 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**ECON-SHU 9301 Econometrics (4 Credits)**

The course examines a number of important areas of econometrics. The topics covered include regression analysis with cross-sectional data; classical linear regression model and extensions; model specification, estimation and inference; regression with qualitative variables; heteroskedasticity and GLS; serial correlation and heteroskedasticity in time series regression. In addition to covering the relevant theoretical issues, the course includes the application of these methods to economic data. Pre-requisites: Statistics (BUSF-SHU 101 OR MATH-SHU 235 OR MATH-SHU 233 OR ECON-UA 18 OR STAT-UB 103 OR STAT-UB 1 OR MATH-GA 2901 OR SOCSC-UH 1010Q OR ECON-UA 20). Fulfillment: Economics Required; Data Science Major Data Analysis Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Required Data Analysis
- SB Crse Attr: NYU Shanghai: Economics Required

Electrical Engineering (EENG-SHU)

EENG-SHU 251 Circuits (4 Credits)*Typically offered Spring*

This course covers Passive DC circuit elements, Kirchoff's laws, electric power calculations, analysis of DC circuits, Nodal and Loop analysis techniques, voltage and current division, Thevenin's and Norton's theorems, and source-free and forced responses of RL, RC and RLC circuits. Prerequisite: MATH-SHU 131 or MATH-SHU 201. Fulfillment: CE required; EE required; Core Curriculum Science Experimental Discovery in the Natural World.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

EENG-SHU 400 Senior Capstone Design Project I (4 Credits)*Typically offered Fall*

The goal of The Capstone Design Project is to provide students with a major design experience that leverages the knowledge and skills acquired through their undergraduate studies and co-curricular experiences. Its structure includes a process of design with measurable metrics, and incorporation of appropriate engineering standards and multiple realistic constraints. Emphasis is placed on clearly framing the design problem and following the design process to result in an optimized design solution. Students are encouraged to build prototypes of their designs and seek validation of their solutions through simulations and experiments, as appropriate. The Capstone Project aims to be collaborative and trans-disciplinary across several engineering streams. The emphasis is on students applying the design process to solve real-world problems in a 21st century, global context. The projects address engineering and technology topics that overlap with the sciences, social sciences, liberal arts or business. The Capstone provides an opportunity to integrate technical, human, aesthetic, business and ethical concerns with engineering design. Students practice critical skills in communication, team-building, and project management. There is a mid-semester review of the projects. Students complete their design, as well as build and test their prototypes, if applicable, in spring semester. The senior year culminates in a comprehensive project report and design review by a committee of faculty and other professionals. Senior Capstone Design Project I (ENGR-AD-400) and Senior Capstone Design Project II (ENGR-AD-401) both consist of two, seven-week modules. Module I, in the fall semester, has a lecture and a project component focusing on the design process, problem definition, project management and Ethics. Module II in the fall is focused on creating the design solution, which is implemented in Module III and tested and validated in Module IV. Prerequisite: Senior Standing and primary major in Electrical & Syst Engineering or Computer Systems Engineering. Fulfillment: CE/EE Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required

EENG-SHU 997 Electrical and Systems Engineering Independent Study (2-4 Credits)*Typically offered APP*

Prerequisite: permission of the department. Fulfillment: EE Additional Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Elective

English (ENGL-SHU)

English for Academic Purposes (EAP-SHU)

EAP-SHU 100 English for Academic Purposes I (4 Credits)*Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100A EAP: Science in the Public Sphere (4 Credits)*Typically offered occasionally*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups. During the semester, you will complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The course is designed to help you acquire skills that also can be transferred to your future professional and personal lives. The thematic, content-based EAP seminar also aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. These course outcomes will be met through engagement with authentic readings and videos on the ways in which the public engages with science and the role of scientists in society. You can expect to enhance your understanding and appreciation of the ways in which the public receives and influences scientific research and discovery. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100B English for Academic Purposes: Human Ingenuity (4 Credits)*Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the ways in which human creativity and innovation affect science, organizations, and society at large. The reasons humans create and innovate will be at the center of the course, as well as the consequences and impacts of creation and innovation. For many organizations, a key challenge is bringing in "the new" and managing the process of improvement. They need to know whether ideas change incrementally or whether they are prone to more radical improvements, as well as whether or not the generation of new ideas is the result of internal and external influences. Overall, students will consider questions such as the nature and importance of innovation, the processes by which this takes place in the scientific world, and how individuals and organizations cope with change and new demands.

Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100H EAP: Smart Cities/Smart Lifestyles (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate the concept and framework of smart cities we are now living in and explore how smart cities come to change our lifestyles. Through a five-pronged framework that includes 1) technology, 2) people, 3) institutions, 4) energy, and 5) data management, learners will examine many aspects of smart cities. These will include the way smart cities are conceptualized, core factors for a successful initiative, and the ways in which a smart city promotes life quality via intensive uses of information and communication technologies. Students will be encouraged to link their own living experiences of, for example, transportation (e.g., ride sharing), healthcare (e.g., mobile clinic), education (e.g., online learning), public safety (e.g., body and dashboard cameras), and housing (e.g., Airbnb), with the issues discussed in the course. Connections will be made to real-world examples of smart cities, such as Shanghai, New York City, Dubai, London, etc.

Overall, through this course, learners will broaden their understanding of areas of the urban experience central to their lives and develop the tools and skills to critically think about this nexus of ideas. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100I EAP: Understanding the News (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore how the news media affects our perceptions of the world around us. We are all daily consumers of the news, either through more traditional news outlets or via social media feeds, and this consumption has far-reaching effects on our local and global societies. We will consider what is news and newsworthy and how information is created and manipulated in our modern world. We will debate the “truthfulness” of various news sources, read academic criticism of the world of reporting, and draw our own conclusions on how we interpret the news. As you engage with this content individually and in small groups, you will develop the academic literacy required for the university setting. It is recognized that these skills can also be transferred to your future professional and personal lives. Overall, through this course, learners will broaden their understanding of the news media and develop the tools and skills to critically think about this from a variety of interdisciplinary perspectives. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100J EAP: What’s so Funny? Taking Humor Seriously (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate topics such as what makes a particular incident funny, why we laugh at some remarks but not others, what is happening in the brain when we laugh, and whether or not there a way to predict what people will find comical. Attempts to answer these surprisingly complex questions have given rise to the rapidly expanding interdisciplinary field of humor studies. We will test various theories of humor to see how well they hold up; take a close look at different genres of humor such as jokes, puns, teasing, irony, parody, dark humor, visual humor, and the absurd; explore the cognitive and social processes involved in the perception and production of humor; try to understand when and why humor does or does not translate well across cultures; study some applications of humor in advertising, education, medicine, business management, and other fields; and consider which factors can render humor ineffective, unintentional, or unethical. Overall, through this course, students will examine the major findings of humor research to date and investigate some of the many mysteries that remain. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100K EAP: Cultivating Minds (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore learning and the contexts in which learners are situated as they strive to get an education. A closer look at learning theories and motivation will be the perfect starting point for the semester-long experiential learning project which requires students to engage with a local learning organization, Stepping Stones, both as volunteer English teachers and observers. Students in the course will be presented with a variety of videos and short excerpts of readings on learners, learning, and education in order both to help them become better learners themselves and to evaluate the learning experiences of others. Moreover, they will have a chance to become volunteer teachers themselves, applying what they learn to design learning experiences for others. This will require a time commitment of at least 10 hours of teaching or the observation of teaching over the semester. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100L English for Academic Purposes: Utopias in Society (4 Credits)

Typically offered Fall

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the concept of utopia, or the perfect society, using historical examples. We will examine these attempts, most of which failed, to create the perfect society through the lens of sociological theory. We will consider how societies are initially conceived by their creators, and the factors that determine a society's success. In order to compare our findings to present-day societies, we will also be engaging with and analyzing the not-for-profit and charity organizations operating in Shanghai today. Through this experience outside the walls of the university, you will consider further how societies can work toward equity among its citizens. A major component of this course will be a group project that will ask you to design a utopia based on ideas addressed in class. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100M English for Academic Purposes: Hacking Happiness: Positive Psychology and Its Critics (4 Credits)

Typically offered Fall

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the techniques of the positive psychology movement. When asked what they want most in life, a majority of people answer, "To be happy." But what, exactly, is happiness: a mood, a predisposition, a judgement? Is contentment a condition we can actively bring about through specific habits and practices? Yes, claim the advocates of positive psychology, with ample research to support their conclusions. In this class, we will try out some of their recommended strategies and document the results. We will also examine the growing body of criticism that questions the presuppositions of this relatively young discipline. Is a sense of well-being really something that can or should be deliberately engineered? Are there more meaningful and fulfilling long-term goals than feeling cheerful and satisfied? What are some of the unintended consequences of treating happiness as an end-state, character virtue, or public policy objective, and whose interests are being served when we blame our distress and alienation on our own private personality flaws? Let's take a close look at the "science behind the smile" and see what we can learn from its successes and shortcomings. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100N English for Academic Purposes: Fashion Consciousness (4 Credits)*Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. In this course, you will engage with content relevant to fashion and fashion industry individually and in groups, completing a variety of communicative tasks and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate the complex world of fashion. Fashion is everywhere. It is one of the main ways in which we present ourselves to others, signaling what we want to communicate about our cultural and subcultural allegiances, our mood and thinking, professionalism, and even wealth, sexuality, and political allegiances. It is also a global industry with huge economic, cultural, and political impact on the lives of all of us who make, sell, wear or even just watch fashion. The aim throughout is to present a comprehensive but also accessible and provocative analysis on many different aspects of fashion. These include, for example, the major events in the history of fashion, how arts and popular culture influence fashion and how fashion shapes global culture and arts, how clothes mean different things in different parts of the world, the links between media promotion and mainstream fashion retail, the power of cosmetics, the rise of celebrity branding, the cult of thinness, and age, gender and national factors in fashion consumptions. Through studying authentic lectures, participating in the discussions, and conducting the project around these topics, you will acquire academic skills that can be transferred to your future professional and personal lives and develop interest in issues that cross disciplines. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100P English for Academic Purposes: Artificial Intelligence: Exploring Opportunity, Assessing Risk (4 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate Artificial Intelligence (AI); its origins, types and applications together with its current and future impact on humanity. The course will be divided into 5 modules addressing education, work, health, the media and the future implications of a digitized planet. Students will also conduct research into the specific ways in which AI is changing the nature of society and the associated ethical implications. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100Q English for Academic Purposes: Digital Identities in Modern Public Spheres (4 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. The pervasiveness of our ever-changing media and communication landscapes offer both innovation and complication for the content and interpretation of our messages. Using the framework of the “public sphere”, virtual realms of social life where society’s problems are open for discussion, we will consider how various digital platforms (news feeds, blogs, chat groups, social media platforms, etc.) control our worldview and influence our evolving selves. Additionally, we will examine how distinctive identities (gender, social class, race, nationality, sexuality) are formed, developed, and expressed via networks (online and in person). Across the semester, you will conduct an investigation of how the concepts of identity (personal) and community (collective) are integrated into the digitally mediated culture. After being introduced to rhetorical theories and concepts, you will be asked to apply them to the analysis and exploration of a variety of online platforms, technologies, and communities. Overall, through this course, learners will gain a better understanding of the power of mass digital communication and how to use it while navigating through various networks. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

EAP-SHU 100R English for Academic Purposes: (Un)Sustainability (4 Credits)*Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. We will inquire into the multidimensional aspects of sustainable development, focusing on the tools, metrics and practical pathways the world is currently exploring. In addition, we will investigate various success indicators for sustainable development. (Un)Sustainability views sustainable development solutions in the context of a range of subfields in addition to sustainability itself, including climate change and political action, and will afford learners the opportunity to carry out a team-based project in relation to the issues posed by this rich interdisciplinary terrain. This course encourages you to consider your role as a responsible 21st century global citizen and promotes analytical and reflective thinking on this role as it relates to global sustainability, including the United Nations Sustainable Development Goals (SDGs) set in 2015. The SDGs are a collection of 17 global goals covering social and economic development issues including poverty, hunger, health, education, climate change, gender, equality, water, sanitation, energy, urbanization, environment and social justice. Through active participation in educational programs and experiential learning, students will increase their knowledge and understanding of the societal issues that EAP 100 strives to address. Therefore, this course includes a 4-5 hour integrated volunteering experience within the local non-profit community and 2-hours of attendance at an NYUSH student club community engagement event. EAP 100 works closely with the Shanghai Service Corp and NYUSH student clubs to provide a variety of charities and community groups to join. The Service Corps provides needed support to nonprofit agencies serving the environment, at-risk youth, and underserved communities for youth and the elderly. Student clubs and organizations are driven by student leaders pursuing personal and professional passions, polishing transferable skills, and promoting learning, diversity, and community. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100S English for Academic Purposes I for FoS Students (2 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Prerequisite: Special for freshman students enrolled in Foundation of Science. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100S3 English for Academic Purposes: Human Ingenuity (FoS) (2 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the ways in which human creativity and innovation affect science, organizations, and society at large. The reasons humans create and innovate will be at the center of the course, as well as the consequences and impacts of creation and innovation. For many organizations, a key challenge is bringing in "the new" and managing the process of improvement. They need to know whether ideas change incrementally or whether they are prone to more radical improvements, as well as whether or not the generation of new ideas is the result of internal and external influences. Overall, students will consider questions such as the nature and importance of innovation, the processes by which this takes place in the scientific world, and how individuals and organizations cope with change and new demands. Prerequisite: Special for freshman students enrolled in Foundation of Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

EAP-SHU 100S4 English for Academic Purposes: The Greater Good for FoS students (2 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore contemporary issues in global public health through a central theme of 'the greater good', a concern for the collective, in issues such as climate change, food security, and population control. It is easy for such challenges to remain abstract, and to imagine teams of experts in far-away places working to address them, and this distance tends to blur the role of the individual. We will examine the tension between individual choice and collective good, between local action and global impact, which runs through a number of global public health topics and manifests across the world in different ways. Additionally, the course will ask you to view these topics with a critical eye through an interdisciplinary lens, applying insights from environmental science, public policy, business, and health. Overall, learners will consider questions such as who stands to benefit from global health policies and initiatives, what is at stake in specific global health issues, and how such issues are being explored globally and locally, just beyond the walls of the classroom in Shanghai. Prerequisite: Special for freshman students enrolled in Foundation of Science.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100T English for Academic Purposes: The Greater Good (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore contemporary issues in global public health through a central theme of 'the greater good', a concern for the collective, in issues such as climate change, food security, and population control. It is easy for such challenges to remain abstract, and to imagine teams of experts in far-away places working to address them, and this distance tends to blur the role of the individual. We will examine the tension between individual choice and collective good, between local action and global impact, which runs through a number of global public health topics and manifests across the world in different ways. Additionally, the course will ask you to view these topics with a critical eye through an interdisciplinary lens, applying insights from environmental science, public policy, business, and health. Overall, learners will consider questions such as who stands to benefit from global health policies and initiatives, what is at stake in specific global health issues, and how such issues are being explored globally and locally, just beyond the walls of the classroom in Shanghai. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100U English for Academic Purposes: Money Stuff (4 Credits)

Typically offered Fall

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate the world of money and the ideas and practices of the global financial system. Using a daily financial column, as well as other videos, talks, lectures, podcasts, and readings, we will examine what money is and explore current issues in the financial world. Specifically, this course will investigate the historical uses and roles of money in a macro sense; the roles technology has played and will play in the financial world; and what the roles and purposes of the financial sector are, and how we evaluate and regulate what it does and how it affects our world. Concurrent with our study of the hows and whys of finance, we will also critically address moral and ethical issues around global finance, and how it affects the people and societies of the world. Overall, through this course, learners will broaden their understanding of finance and develop the tools and skills to critically think about and evaluate money stuff in the world. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100V English for Academic Purposes: The Science of Friendship (4 Credits)

Typically offered Fall

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. This course will be a discussion-based seminar. As such, you will be required to read and prepare for class in advance—with the intention to actively listen and participate in group and class discussions. You should be prepared to think critically about the topics by applying, critiquing, analyzing, and synthesizing information. In addition, you will be conducting a project outside of class that is designed to foster engagement with the larger Shanghai community. The course is designed to help you acquire skills that can be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, in this course, we shall examine a relatively new area of scientific inquiry: friendship. Neglected in favor of studies of familial relationships and sexual relationships, scientists are now looking to better define and explore the science of friendship. During the recent global pandemic and social distancing efforts, the psychological and physical effects of loneliness—perhaps the opposite of friendship—have been felt worldwide further highlighting the importance of understanding the connection between friendship and our overall well-being. Technology such as WeChat, Zoom, and FaceTime has allowed us to stay connected, but has also altered the definition and structure of friendship. This course will be truly interdisciplinary in nature examining friendship through the lenses of biology, sociology, and psychology, as well as looking at the impact of technology on how we define and perform friendship. You will be asked to take the role of a scientist examining your personal connections and the environment around you to collect data, explore the elements that determine who you are friends with and why, and, hopefully, to create stronger, more rewarding social bonds. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 100W English for Academic Purposes: Negotiating Self and Other (4 Credits)*Typically offered occasionally*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative and reflective tasks, and an experiential learning project beyond the walls of the university. The course is designed to help you acquire skills that can also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. The “self” is a natural place to begin. The problem is that this is all-too-often simply taken for granted. What are selves? Are we what we say we are? But what about the way we appear to others? An important constraint on what we may become is our membership in various communities. You will be presented with a variety of sources that may include video, audio, readings, and advertising materials in order to assist you in forming and formulating your views about the process of negotiation between self and other in culture and society. Some of the subthemes that will be discussed will be self-concept and identity construction, culture and sub-culture, minority groups, gender identity, and material and consumer identities. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100X English for Academic Purposes: The Final Boss: Defeating Social Issues in Gaming (4 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, through game-play and observation assignments, we will consider how games can operate as tools of propaganda or social-critique and how these social issues affect the players. Contrary to public opinion, it is not just “all fun and games.” Whether table-top, deck-building, MMORPG, mobile or on the playground in the school-yard, most games tell a narrative story. That narrative is a product of a real-world society. The beliefs, values, stereotypes, politics, and histories of each play out in the “Magic Circle” and are often used to drive the narrative of the story. You will be asked to think critically about the narratives created in some of your favorite games and others you’ve never played before. Designed with novice players in mind and structured as a game, you must complete each level of the course project to beat the final boss. Are you ready to play? Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100Y English for Academic Purposes: Food for Thought: Eating Our Way to a Sustainable Future (4 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate food; its production and consumption and the challenges of feeding a growing global population. The course will be divided into 5 modules addressing food security, sustainability and waste as well as the politics of food and what the future might hold in terms of diet. Students will also conduct research into the factors that influence both our current food choices and those of the future. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**EAP-SHU 100Z English for Academic Purposes: Governing & Governance: Impacts on Societies, Businesses and People (4 Credits)***Typically offered Fall*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the complex world of rules, laws, governments, and economic standards. The rules to this game we call life. There are rules. As humans, we made most of them. And we tend to like our artificial constraints too. In fact, we have continuously chosen organization, structure and predictability over chaos. But these systems are manufactured, and as such, they exist in a paradox of both strength and fragility. A country’s currency, for example, has value unless its government begins to fail. Laws are respected until they’re not. And businesses have worth until people believe they don’t anymore. Given such dynamics, how are governments, as well as businesses, able to exist and function effectively? And how are so few people able to wield control over so many others? This course will examine such phenomena among societies, governments, businesses, as well as those on the receiving end of such controlling powers. Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

EAP-SHU 101 English for Academic Purposes II (4 Credits)*Typically offered Spring*

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101-20A Crossing lines: Ethical considerations in science and technology (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Through topics such as machine learning, genetic technologies, and autonomous robots, this course investigates ethical concerns associated with emerging scientific and technological innovations. Students will examine differing perspectives on potential human and planetary impacts, the role of scientists and technologists in society, and what role morality and ethics play in creating our shared techno-future. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101A English for Academic Purposes: Crime, Punishment, and Atonement (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. What is a crime? This course will analyze the qualities of and relationship between criminality, discipline, and forgiveness through an assortment of cultural lenses. A wide range of human behavior across history has crossed the line between acceptable and intolerable and back as related to a variety of factors. By recognizing that the concept of illegal behavior shifts, expands, and retracts with time and across societies, students will explore how individuals, communities, and institutions perceive and react to various offenses and offenders. In this seminar-centered course, students will select relevant case studies to extend the discourse by examining reactions to crime and criminal behavior across select historical and social timelines for contrast, comparison, and critique. Across the semester, students will conduct investigations of how we, as a society, judge, punish, and forgive select categories of crimes and criminals. This course also includes analyses of contemporary issues regarding criminal justice reform, recidivism, and crime-related public policy. The ethics and implementation of punishment, forgiveness, restitution and reconciliation will be reviewed and contextualized to offer students a complete picture of the function and flaws of observed justice. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101B EAP: Online Video (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course is designed to give students an appreciation of the rise of online video and its implications (both positive and negative) on society at large. Through a mixture of prepared academic lectures and readings, plus a healthy dose of online video media students will watch and analyze, the course will examine the characteristics and features of this media that make it different from other video and also explain its ability to speak to so many people in different ways. Furthermore, the course will use design theories and practical advice from actual online videographers to help students gain an elementary understanding of the successful production techniques necessary for this media. Students will hopefully walk away from the course with the necessary skills to be successful at NYU and both a critical eye of online video and ideas and some practices on how to best communicate in this media. (Tentative description) Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101C English for Academic Purposes: Intercultural Communication (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. In this course, you will be given the opportunity to 'master the skills of cross-cultural effectiveness,' a central part of the mission of NYU-Shanghai. These are perhaps the most important goals that you can set for yourselves in today's global world where people from disparate cultures must come together to solve the big problems of the age. In order to become effective in communicating across cultural boundaries, one must first 'know thyself' and the way that cultural self is perceived by others. Just as a fish in water is not aware of the water, it is difficult to see the always shifting cultural contexts in which global citizens "swim." You will increase your ability to recognize 'intercultural variables' and disparate 'communication styles,' conceptualize and practice intercultural communication and etiquette that is both verbal and non-verbal, and question assumptions you have about communication and culture. You will also be prompted to develop your own set of intercultural values in light of what you have learned. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101D English for Academic Purposes: Are You Ready To Rock? (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this EAP seminar is a short survey of pre-rock and rock history that explores the main eras and key events in rock and pre-rock history mainly within 20th and 21st century United States. Traditional African music and nineteenth century American music, jazz, blues, country music, rock and roll, hip-hop, electronic music, punk, metal and modern-day hits will be investigated with a focus on the social and historical elements involved. Other themes include politics, economics, technology, race and ethnicity as they relate to the songs we discover. We will also review live concerts and rate air guitar championships. Are you ready to rock? Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101E English for Academic Purposes: Animals and Human Society (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the relationship between humans and non-human species from a sociological viewpoint. Topics include: the history of animal-human relations; the moral status of animals; how gender, class, and race-ethnicity impact our dealings with animals; zoos and shelters; the relationship between violence toward animals and toward people; animal rights movements; animal therapy; and the question of whether animals are part of society. In order to contextualize these ideas, students will engage in a research project that involves interviewing an expert on one of these topics. Through this experience outside the walls of the university, you will consider further these questions surrounding animals and humans. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101F English for Academic Purposes: On the Border (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Students in this course will examine the categories and boundaries humans create to define, understand, identify with, and separate one another. Specifically, the course invites student inquiries into different types of borders and boundaries, what purpose each serves, and how these borders are crossed. The exploration of physical and geographical borders will include topics such as migration, displacement, and refugee resettlement. From a metaphorical perspective, seminar discussions of linguistic, social, and cultural 'borderlands', and how these categories intersect, will offer students a chance to critically engage with contemporary issues and questions. An overarching aim is to interrogate the use of borders and similar metaphors in understanding human relationships. Through independent research and an interview project, students will explore a topic related to the course theme, coming to understand how borders function within and beyond the walls of NYU-Shanghai. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101G English for Academic Purposes: Cultural Representation, Appropriation and Distortion (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the ways in which cultures and subcultures define themselves, are defined by others, and the cultural overlapping that exists among them—for better or worse? This course provides a cross-examination of culture itself, interweaving aspects of anthropology, politics, history and sociology in its attempt to deconstruct traditional paradigms. Students will critically examine various histories and perspectives in search of greater clarity and ‘truths’ as they challenge their own preconceptions and assumptions. This course ultimately aims to effect greater awareness, tolerance, and insight to students as they engage with our complex, yet interconnected human world from the inside out, and from the past, forward. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101H English for Academic Purposes: Smart Cities/Smart Lifestyles (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate the concept and framework of smart cities we are now living in and explore how smart cities come to change our lifestyles. Through a five-pronged framework that includes 1) technology, 2) people, 3) institutions, 4) energy, and 5) data management, learners will examine many aspects of smart cities. These will include the way smart cities are conceptualized, core factors for a successful initiative, and the ways in which a smart city promotes life quality via intensive uses of information and communication technologies. Students will be encouraged to link their own living experiences of, for example, transportation (e.g., ride sharing), healthcare (e.g., mobile clinic), education (e.g., online learning), public safety (e.g., body and dashboard cameras), and housing (e.g., Airbnb), with the issues discussed in the course. Connections will be made to real-world examples of smart cities, such as Shanghai, New York City, Dubai, London, etc. Overall, through this course, learners will broaden their understanding of areas of the urban experience central to their lives and develop the tools and skills to critically think about this nexus of ideas. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101I English for Academic Purposes: Understanding the News (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore how the news media affects our perceptions of the world around us. We are all daily consumers of the news, either through more traditional news outlets or via social media feeds, and this consumption has far-reaching effects on our local and global societies. We will consider what is news and newsworthy and how information is created and manipulated in our modern world. We will debate the “truthfulness” of various news sources, read academic criticism of the world of reporting, and draw our own conclusions on how we interpret the news. As you engage with this content individually and in small groups, you will develop the academic literacy required for the university setting. It is recognized that these skills can also be transferred to your future professional and personal lives. Overall, through this course, learners will broaden their understanding of the news media and develop the tools and skills to critically think about this from a variety of interdisciplinary perspectives. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101J English for Academic Purposes: What’s So Funny? Taking Humor Seriously (4 Credits)

This 101-level English for Academic Purposes (EAP) course is designed to help you continue to develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. At the 101 level students are encouraged to gain control over facilitation of group discussions as well as the other academic communicative skills introduced at the 100-level. These academic skills can also be transferred to future professional and personal endeavors. As in the 100-level course, the thematic, content-based EAP seminar, aims to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate topics such as what makes a particular incident funny, why we laugh at some remarks but not others, what is happening in the brain when we laugh, and whether or not there a way to predict what people will find comical. Attempts to answer these surprisingly complex questions have given rise to the rapidly expanding interdisciplinary field of humor studies. We will test various theories of humor to see how well they hold up; take a close look at different genres of humor such as jokes, puns, teasing, irony, parody, dark humor, visual humor, and the absurd; explore the cognitive and social processes involved in the perception and production of humor; try to understand when and why humor does or does not translate well across cultures; study some applications of humor in advertising, education, medicine, business management, and other fields; and consider which factors can render humor ineffective, unintentional, or unethical. Overall, through this course, students will examine the major findings of humor research to date and investigate some of the many mysteries that remain. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101P English for Academic Purposes: Artificial Intelligence: Exploring Opportunity, Assessing Risk (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will investigate Artificial Intelligence (AI); its origins, types and applications together with its current and future impact on humanity. The course will be divided into 5 modules addressing education, work, health, the media and the future implications of a digitized planet. Students will also conduct research into the specific ways in which AI is changing the nature of society and the associated ethical implications. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101S English for Academic Purposes II for FoS Students (2 Credits)*Typically offered Spring*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Prerequisite: Special for freshman students enrolled in Foundation of Science. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101S1 English for Academic Purposes: Human Ingenuity (FoS) (2 Credits)*Typically offered every year*

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore the ways in which human creativity and innovation affect science, organizations, and society at large. The reasons humans create and innovate will be at the center of the course, as well as the consequences and impacts of creation and innovation. For many organizations, a key challenge is bringing in "the new" and managing the process of improvement. They need to know whether ideas change incrementally or whether they are prone to more radical improvements, as well as whether or not the generation of new ideas is the result of internal and external influences. Overall, students will consider questions such as the nature and importance of innovation, the processes by which this takes place in the scientific world, and how individuals and organizations cope with change and new demands.

Prerequisite: Special for freshman students enrolled in Foundation of Science. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101S4 English for Academic Purposes: The Greater Good for FoS Students (2-credits) (2 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments and an experiential learning project outside the walls of the university. The courses are designed to help you acquire skills that can also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, this course will explore contemporary issues in global public health through a central theme of 'the greater good', a concern for the collective, in issues such as climate change, food security, and population control. It is easy for such challenges to remain abstract, and to imagine teams of experts in far-away places working to address them, and this distance tends to blur the role of the individual. We will examine the tension between individual choice and collective good, between local action and global impact, which runs through a number of global public health topics and manifests across the world in different ways. Additionally, the course will ask you to view these topics with a critical eye through an interdisciplinary lens, applying insights from environmental science, public policy, business, and health. Overall, learners will consider questions such as who stands to benefit from global health policies and initiatives, what is at stake in specific global health issues, and how such issues are being explored globally and locally, just beyond the walls of the classroom in Shanghai. Prerequisite: Special for freshman students enrolled in Foundation of Science.

Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101V English for Academic Purposes: The Science of Friendship (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. This course will be a discussion-based seminar. As such, you will be required to read and prepare for class in advance—with the intention to actively listen and participate in group and class discussions. You should be prepared to think critically about the topics by applying, critiquing, analyzing, and synthesizing information. In addition, you will be conducting a project outside of class that is designed to foster engagement with the larger Shanghai community. The course is designed to help you acquire skills that can be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. Specifically, in this course, we shall examine a relatively new area of scientific inquiry: friendship. Neglected in favor of studies of familial relationships and sexual relationships, scientists are now looking to better define and explore the science of friendship. During the recent global pandemic and social distancing efforts, the psychological and physical effects of loneliness—perhaps the opposite of friendship—have been felt worldwide further highlighting the importance of understanding the connection between friendship and our overall well-being. Technology such as WeChat, Zoom, and FaceTime has allowed us to stay connected, but has also altered the definition and structure of friendship. This course will be truly interdisciplinary in nature examining friendship through the lenses of biology, sociology, and psychology, as well as looking at the impact of technology on how we define and perform friendship. You will be asked to take the role of a scientist examining your personal connections and the environment around you to collect data, explore the elements that determine who you are friends with and why, and, hopefully, to create stronger, more rewarding social bonds. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 101W English for Academic Purposes: Negotiating Self and Other (4 Credits)

The freshman English for Academic Purposes (EAP) course is designed to help you develop the high-level language, communication, and critical thinking skills you need to be successful in an English-speaking university. While the primary emphasis is on speaking and listening, you will also practice reading and writing. You will engage with content individually and in groups, complete a variety of communicative tasks, reflective writing assignments, and an experiential learning project outside the walls of the university. This course is designed to help you acquire skills that can be also be transferred to your future professional and personal lives, and to help you cultivate an interest in issues that cross disciplines, an important part of a well-rounded, liberal arts education. The “self” is a natural place to begin. The problem is that this is all-too-often simply taken for granted. What are selves? Are we what we say we are? But what about the way we appear to others? An important constraint on what we may become is our membership in various communities. Students will be presented with a variety of texts (written and visual, including video, audio clips, and possibly print advertising) in order to assist them in forming their opinions about the process of negotiation between self and other in society. Moreover, the concept of ‘negotiation’ itself will be highlighted and explored in this context. Some of the subthemes that will be discussed will be self-concept and identity construction, culture and sub-culture, treatment of minority groups, gender identity, and material and consumer identities. Prerequisite: None. Fulfillment: Core Language requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Language

EAP-SHU 201 Hearts and Minds: Advanced Public Speaking (4 Credits)

Typically offered every year

This course is designed to take your public speaking skills to the next level. The course aims to deliver students a tool kit for engaging and effective presentations, design principles for visual aids, and space to critically assess and reflect on public speaking and other’s presentations. Close-readings of exemplar model talks and a peer-feedback workshop approach will help students develop top-notch public talks. The course will prepare students to give both common academic presentations, like case-studies and research-based presentations, as well as other speech types, like a pitch and a TED talk. Students will work on speaking events both long and short, and prepared and extemporaneous. The course will culminate with a public presentation of polished and revised talks from the course. Prerequisite: Sophomore standing (Chinese & international students) Fulfillment: General Elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EAP-SHU 202 Media Savvy: Navigating the Digital World with Information Literacy (4 Credits)*Typically offered every year*

This is a comprehensive course designed to equip students with the skills and knowledge needed to effectively navigate the digital world and evaluate information with a critical eye. Through a combination of lectures, discussions, and hands-on activities, students will learn how to identify credible sources, recognize fake news, and effectively communicate information in the age of social media. By the end of the course, students will be well-versed in media information literacy and able to use these skills in their personal and professional lives. Prerequisite: Sophomore standing (Chinese & international students) Fulfillment: General elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Exper Discovery in Nat World (CCEX-SHU)

CCEX-SHU 1 Principles of Life-From Cells to Organisms (2 Credits)

Principles of Life-From Cells to Organisms Co-req for CCEX-SHU 1 is CCEX-SHU 3 Fulfillment: Core Curriculum Science Experimental Discovery in the Natural World Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 3 Explore the Cell: from Gene to Protein (2 Credits)

Explore the Cell: from Gene to Protein Co-req for CCEX-SHU 3 is CCEX-SHU 1. Fulfillment: Core Curriculum Science Experimental Discovery in the Natural World Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 115 Experiments in Food Science (4 Credits)

In this laboratory course students will become familiar with various techniques, equipment, data analysis skills, best practices in lab safety and ideas common to chemistry laboratories and to experimental research. The course will also give students an overview of the chemical and physical properties of the major and minor food components including water, carbohydrates, minerals, vitamins and so on. The course is intended to introduce students to the applied aspects of food chemistry, chemical properties of food components and relationships between the chemical composition of foods and functional, nutritional, and sensory properties. Students will also learn how to use scientific instruments and acquire different laboratory skills and techniques to help them draw conclusions from observed facts. Fulfillment: CORE ED.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 120 Biology for a Changing World (4 Credits)*Typically offered Fall*

This course introduces the principles and technologies of modern biology. It covers the cellular and molecular structure of organisms, how life works on the basis of energy and metabolism, and how life reproduces through cell division and inheritance. The course will provide an overview of the biological process from gene expression, epigenetic modification, cell cycle and differentiation, mutation and cancer, and the signaling pathways and mechanisms among the cells in a changing world. Prerequisite: None. Antirequisite: Students who have taken CHEM-SHU 125 Foundations of Chemistry I are not eligible. Fulfillment: CORE ED.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 122 Perception and the Brain (4 Credits)*Typically offered every year*

"How do humans and other animals obtain knowledge about the world?

It is easy to take perception for granted, but complex processes (only partly understood) underlie our ability to understand the world by seeing, hearing, feeling, tasting, and smelling it. This is not because the scientific study of perception is new. In fact, perception has fascinated philosophers, physicists, and physiologists for centuries. Currently, perception is a central topic in psychology, cognitive science, computer science, and neuroscience. How do scientists approach perception?

We seek to discover lawful relations between perceptual experiences and the physical world and to develop models of the processes and mechanisms in the brain that produce these connections. In this course, in the lectures, we will discuss fundamental problems in perception (primarily vision), and in the lab sessions, you will learn about standard experimental methods and their use in the study of perceptual processes and to give you first-hand experience in conducting original research. As part of these activities you will learn to write experimental reports and to think critically about the relation between theory and experiment. You will also be exposed to the use of computers in perception research. Indeed, there will be considerable use of computers in the course, with part of the goal being to provide you with basic computer skills." Prereq: None Fulfillment: CORE ED; NS elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Neural Science Elective

CCEX-SHU 136 Human Genetics: Genes in Human Health & Diseases (4 Credits)*Typically offered Spring term of odd numbered years*

Why do some diseases pass from one generation to the next in families? Why are certain groups more susceptible to some genetic conditions? Is there a way to change genes to avoid or cure genetic diseases? This course explores how inheritance, environment, experience and random errors affect the information encoded in our genes, how this "blueprint" is interpreted by cellular machinery to build a complex human being, and how our heredity has resulted in our evolution. The lab part focuses (1) to enhance and reinforce understanding of the concepts presented in the lectures and (2) to further develop problem-solving and critical-thinking skills. The labs generally use tactile, hands-on experiences to provide additional means toward learning concepts. Prerequisite: None. Fulfillment: CORE ED

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 137 Human Genetics: Genes in Human Health & Disease Lab (2 Credits)

The Human Genetics: Genes in Human Health & Disease Lab is a laboratory course corresponding to the Human Genetics: Genes in Human Health & Disease lecture. The lecture is the pre- or co-requisite course for the lab. The overall aim of this course is to provide a basic understanding, geared especially to non-biologists, about the biological mechanisms of genetics. In particular, this lab course focuses on the "hands-on", active learning opportunities provided by the laboratory component. There are two main purposes of the lab: (1) to enhance and reinforce understanding of the concepts presented in the lectures and (2) to further develop problem-solving and critical-thinking skills. The labs generally use tactile, hands-on experiences to provide additional means toward learning concepts. Fulfillment: CORE ED (with CCEX-SHU 136)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 170 While You Were Sleeping (4 Credits)*Typically offered every year*

In this course, we will explore the mysterious and largely uncharted world of sleep and dreams. We will question many of our most basic assumptions and biases about the role of sleep in our lives and discover the importance of sleep in optimizing our physical and mental health. This course will be broken into five major themes: (1) Defining sleep; (2) dreams; (3) the evolution of sleep; (4) sleep regulation; and (5) sleep disorders and treatment. The lab portion of this experimental discovery course will guide students through various aspects of the experimental process including informed consent, data collection and interpretation, and applying evidenced-based strategies to improve sleep. Prerequisite: None. Fulfillment: Core Curriculum Science Experimental Discovery in the Natural World Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 203 Energy and the Environment (4 Credits)*Typically offered Fall and Spring*

This course explores the scientific foundations of current environmental issues and their implications for public policy. The syllabus is divided into sections that each examines a current environmental theme in depth. The first sections investigate the composition of the atmosphere and the chemical processes that cause air pollution, ozone depletion, and global warming. Moving to the study of water, the course explores the properties of this unique solvent and the effect of various aqueous pollutants. The course also includes an investigation of energy from chemical reactions, our continuing reliance on fossil fuels, and the potential of alternative energy sources. The laboratory experiments are closely integrated with the lecture topics and provide hands-on explorations of central course themes. Throughout the course we also will examine how scientific studies of the environment are intimately connected with political, economic and policy concerns. Fulfillment: Core Curriculum Science Experimental Discovery in the Natural World Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

CCEX-SHU 214 How Things Work (4 Credits)*Typically offered Spring*

All of the devices that define contemporary living are applications of basic scientific discoveries. The principles underlying these devices are fascinating as well as useful, and explain as well many of the natural features and phenomena of the world around us. This course familiarizes you with some basic principles of physics through their applications to selected devices such as CD and DVD players, radio and cell phones, the basic electronic components of computers, lasers and LEDs, and even nuclear weapons. In learning the basic physics behind these modern inventions, you will develop a deeper understanding of how the physical world works and gain a new appreciation of everyday phenomena that are ordinarily taken for granted. The course is designed for non-science students with an interest in the natural world. The basic physical ideas needed to understand how things operate are presented using some mathematics, but none beyond elementary high school-level algebra. Prerequisite: None. Fulfillment: CORE ED

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World

Experiential Learning (EXLI-SHU)

EXLI-SHU 9301 CITY AS TEXT (4 Credits)

Typically offered Fall

"City as Text" is a rigorous, 4-credit seminar designed to introduce students to the study away environment through an intensive academic program of cultural preparation and local immersion. Through scholarly and journalistic readings from interdisciplinary perspectives, students develop a nuanced understanding of the local, regional, national, and global forces that bring shape to the character of the city. Multiple class sessions take place in locations around the city, such as ports, markets, industrial centers, parks, pedestrian zones, and other points of interest, where students apply direct observation to examine critically formed questions of place, space and identity. Students draw on the city as a primary resource for academic research and critical inquiry and they produce innovative research projects (digital or print) that reflect on the city at the crossroads of local and global identity. Prerequisite: Only study-away Juniors in the GLS program may take this course. Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

EXLI-SHU 9302 Experiential Learning (2 Credits)

Typically offered occasionally

"Experiential Learning" is a 2-credit, Pass/Fail course that supports students in the Spring semester as they enter the workplace culture of the city through Community Placements which may include, but are not limited to, volunteer work, internships, or in some cases, independent research. Through class meetings, reflective writing, and individual conferences, faculty guide students to define an independent research project that grows out of the workplace experience, and which reflects a nuanced understanding of how the workplace culture relates to the social and cultural milieu of the city. Pre-requisite: EXLI-SHU 9301 City as Text. Fulfillment: general elective

Grading: Ugrd Shanghai Pass/Fail

Repeatable for additional credit: No

Foundations of Science (CCSC-SHU) French Language (FREN-SHU)

FREN-SHU 1 Elementary French I (4 Credits)

Typically offered all terms

Open to students with no previous training in French and to others on assignment by placement test. This course introduces students to the foundations of French grammar, vocabulary, and structure through practice of the four skills (listening, speaking, reading, writing). Not equivalent to FREN-UA 10. Only by combining FREN-UA 1 with FREN-UA 2 can a student complete the equivalent of FREN-SHU 10 and then continue on to the intermediate level. Prereq: None Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 2 Elementary French II (4 Credits)

Typically offered every year

This Elementary French II course is designed to provide students who have already studied one semester of French (or the equivalent thereof) with continued progress in the French language through the practice of the four skills. This is a continuation of FREN-SHU 1. To progress to the intermediate level, a student must complete both FREN-SHU 1 and FREN-SHU 2 (or the equivalent of both semesters, FREN-SHU 10). 4 points.

Prerequisite: FREN-SHU 1 or the equivalent Fulfillment: General elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 10 Intensive Elementary French (6 Credits)

Typically offered Fall and Spring

Open to students with no previous training in French and to others on assignment by placement test. Completes the equivalent of a year's elementary level in one semester. Offered every semester. 6 points.

Prerequisite: None. Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 11 Intermediate French I (4 Credits)

Typically offered every year

This Intermediate French I course is designed to give students who have completed the elementary sequence (or the equivalent) a deeper understanding of the French language through the practice of the four skills. Open to students who have completed the equivalent of a year's elementary level and to others on assignment by placement test. Not equivalent to FREN-UA 20 Intensive Intermediate French. Prerequisite: FREN-SHU 2 or FREN-SHU 10 (or the equivalent or by placement exam) Fulfillment: General Elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 12 Intermediate French II (4 Credits)

Typically offered every year

This course is a continuation of Intermediate French I. Students will expand their vocabulary and learn increasingly complex grammatical patterns. The course takes a balanced approach to all four skills (listening, speaking, reading, writing). Not equivalent to FREN-UA 20 Intensive Intermediate French. Prerequisite: FREN-SHU 11 or FREN-UA 11 Intermediate French I, or the equivalent or by placement exam Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 20 Intensive Intermediate French (6 Credits)

Completes the equivalent of a year's intermediate level in one semester. Offered every semester. 6 points. PREREQS: Intensive Elementary French or Instructor Permission Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 30 French Grammar and Composition (4 Credits)

Typically offered Fall and Spring

Systematizes and reinforces the language skills presented in earlier-level courses through an intensive review of grammar, written exercises, an introduction to composition, lexical enrichment, and literary analysis.

Prerequisite: FREN-SHU 20 or FREN-SHU 12 [or the equivalent or by placement exam (

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

FREN-SHU 110 Business French (4 Credits)

Designed for students who wish to learn the specialized language used in French business. Emphasis on oral and written communication and the acquisition of a business and commercial vocabulary dealing with the varied activities of a commercial firm (e.g., advertising, transportation, banking). Stresses group work in simulated business situations and exposure to authentic spoken materials. Prerequisite: FREN-SHU 30 French Grammar and Composition or the equivalent or take the NYU placement test (<http://www.nyu.edu/cas/flpexam/>). Fulfillment: general elective

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Global China Studies (GCHN-SHU)

GCHN-SHU 101 Introduction to Chinese Civilization (4 Credits)

Typically offered every year

This course provides an introduction to Chinese civilization from ancient times to the present. With a focus on inter-cultural and inter-ethnic interactions, we will explore three sets of questions that are central to the understanding of Chinese civilization. China is frequently seen as a culturally and ethnically homogenous society, but is this view historically accurate? How did Chinese interactions with cultural, ethnic, and racial others shaped the evolution of Chinese civilization, and how did these interactions impact the trajectory of world history? How might considering heterogeneity help us better understand China and Chinese identity, and how have these concepts changed over time? Over the course of the semester, we will read historical texts from China's major dynasties and trace changing conceptions of Chinese civilization and Chinese identity. Prerequisite: None. Fulfillment: CORE SSPC, HPC or IPC; GCS Elective Chinese History, Society, and Culture.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 102 History of Modern China Since 1840 (4 Credits)

Typically offered Fall and Spring

This course examines China's modern history from around the 16th century to the present. It will go through the social, political, economic and cultural, as well as international developments China has experienced during the past four hundred years, with an emphasis placed upon the late 19th and 20th centuries. While this course will provide a chronological depiction of main historical events and historical figures, it will also emphasize a series of important themes crucial for comprehending the dynamics and trajectory of China's modern era. Its purpose is not just to impart information; it also aims to cultivate a basic understanding of the significance of the Chinese experience in the age of worldwide modernization. This course will also expose students to different scholarly or other interpretations of China's recent past, so that, hopefully, they will occupy an academically/intellectually informed position to critically embrace or discard all kinds of narratives of "China" and its modern history that they encounter. The format of the course combines lectures, critical discussions, and interactive selected texts reading. It is expected that all students will be prepared for the course outside class and will be actively engaged in all parts of the class. Prerequisites: None. Fulfillment: CORE HPC or IPC; GCS Chinese History, Society, and Culture; Humanities Introductory course (18-19: survey).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 108 THE WORLD OF YUNNAN: Culture, History, and Life Along China's Southwestern Borderlands (4 Credits)

Typically offered every year

This course surveys the history, culture, and diversity of Yunnan, China. From the ancient bronzes of the Dian Kingdom to the province's recent rise as a tourist destination, students will encounter the voices of indigenous peoples and outsider's narratives. In addition to focusing on Yunnan and its regional history, this course will relate basic chronology and major events of Chinese history. The World of Yunnan examines religious pilgrimages, commercial linkages, and the Warlord politics of the early 20th century to better evaluate Yunnan's unique positioning in China, Asia and the world. Each class will examine both textual and visual sources to provide a fine-grained understanding of Yunnan's overlapping ethnic, commercial, and ecological landscapes. Students will be introduced to historical, anthropological, and religious studies methodologies culminating in a final oral project. Prerequisite: None. Fulfillment: CORE HPC/IPC; GCS Elective Chinese History, Society, and Culture

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 110 The Concept of China (4 Credits)*Typically offered Fall and Spring*

What do people think they are talking about when they refer to “China”? Does the term refer to a geographical, cultural, political, hybrid, or other type of entity? How and why has that changed both within China and outside China? This course is about reality and representation; it will address both the shifting geographical, political, cultural and human reality of “China” and what “China” meant to both inhabitants and outsiders in different periods and in different contexts. The goals of the course are 1) to deepen understanding of the history of China and the role of the past in the present 2) to introduce different ways of thinking about China in the world and the world in China, 3) to learn to distinguish between opinion, hypothesis and fact in historical inquiry; 4) to reinstate a concept of China as dynamic, varied, and interactive. Prerequisite: None. Fulfillment: Core Curriculum Humanistic Perspectives on China or Interdisciplinary Perspectives on China; GCS Major Requirement; Humanities Major Other Introductory Courses (18-19 Critical Concepts Core Course/Survey Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Required The Concept of China
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 111 Shanghai Stories (4 Credits)*Typically offered Fall*

This course provides an introduction to the history and culture of Shanghai through the eyes of fiction writers. We will read short stories (in English translation) by Chinese, British, American, Japanese, French, Polish, and South African writers who lived in the city between 1910 and 2010. Their stories will take us on an imaginary city tour through time and space: from businessmen, politicians, and prostitutes gathering in the nightclubs of the old Bund, to Jewish refugees struggling to find a home in the poor shikumen neighborhoods of Hongkou, to teachers and students fighting political battles at the university campuses during the Cultural Revolution, and young urban youth pursuing cosmopolitan lifestyles in the global city of today. The course also includes trips to various places featured in the stories and guest lectures by some of Shanghai's most famous writers today. Prerequisite: None. Fulfillment: CORE HPC or IPC; GCS Chinese Media, Arts, and Literature; Humanities Major Other Introductory Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 112 China Stories: Traditions and Transformations (4 Credits)*Typically offered every year*

What is a good China story? Is this the story China should tell about itself to the world? Is this about cultural self-perception, understanding the world, cross-cultural communication, or simple propaganda? More importantly, how can we tell China stories from perspectives inside and outside China? Narrative fiction is one of the most effective ways to engage with the Chinese past and the Chinese present. In this course, Students will be introduced to various genres including philosophy, religious allegory, romance, political satire, and science fiction. Instead of presenting China as a monolithic civilization, this course uses stories—from the premodern originals to their modern iterations in print and on screen—to understand “the world of China” and “China in the world” from ideological, ethnic, cultural, and geo-political perspectives. Prerequisite: None. Fulfillment: Core HPC/IPC; GCS Major/minor; GCS Elective: Chinese Literature, Art, and Media.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 116 Traditional Chinese Literature from the Beginning to 1911 (4 Credits)*Typically offered every year*

Was Li Bai or Du Fu more famous during their time? Which one of the Four Classic Novels is more worth reading? More importantly, what is out there in the world of traditional Chinese literature? We will answer these questions in this introductory level course of traditional Chinese literature. This course surveys the historical developments of traditional Chinese literature from Early China to 1911CE, focusing on the most representative literary figures, works, and genres. Along with these representative works, the course will also examine the most influential literary and aesthetic theories of each time period. Built on the survey, this course further aims to cultivate two sets of skills: 1. Literary analysis, especially through dissecting a work's genre, imageries, aesthetics, and social contexts; 2. critiques on several conceptual issues based on both primary sources and modern scholarship, including the construction of a literary lineage, sense of a canon, standards of aesthetics, etc. This course does not require any Chinese, Mandarin or Classical Chinese. Prerequisite: None. Fulfillment: 1. CORE HPC/IPC 2. GCS Elective: Chinese Media, Art, and Literature; Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

GCHN-SHU 123 Contemporary Chinese Political Thought (4 Credits)*Typically offered Fall and Spring*

This course introduces students to perspectives on contemporary Chinese political and social thought as presented in academic publications, media reports, social commentary and postings on the Chinese Internet. It covers selected key topics in the disciplines of political, social, and cultural studies. It examines and compares Chinese and Western views on major developments and current issues. The course also introduces students to a variety of styles of writing and research methods as well as skills of cultural translation relevant to the study of contemporary China and Chinese thought. Fulfillment: Core Curriculum Social Science Perspective on China/Humanistic Perspectives on China or Interdisciplinary Perspectives on China; GCS Elective The Politics, Economy, and Environment of China; Humanities Major Advanced Courses (old Topic Course); Social Science Major Focus Courses Political Science - 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 126 The Media in China (4 Credits)*Typically offered Fall and Spring*

This course traces the historical transformation of media in post-reform China, from mass media to digital media, and examines the impact of shifting media landscapes on Chinese people's everyday lives. We will explore questions including: how have media technologies and media practices been shifting in China since 1978? What is the relationship between media development, China's political cultures, and global capitalism? How have traditional and new media mediated the public's political engagement? How have digital media affected the lives of vulnerable and marginalized individuals and how have these groups changed media practices? This course will help students develop deeper understandings of Chinese media cultures and society in a global context. Prerequisite: None. Fulfillment: CORE IPC; GCS Chinese Media, Arts, and Literature; Social Science Major Focus Courses Sociology - 200 level/ Self-Designed/Media Studies - 200 level; (18-19 Humanities Major Digital Approaches Core Course).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

GCHN-SHU 128 The Buddha, His Teachings, and His Followers (4 Credits)*Typically offered every year*

The course is designed to introduce important aspects of Buddhist thought and culture and encourage students to reflect their influence on Chinese (and also East Asian) culture and society. The first part of the course covers the early history of Buddhism and its evolution. It also introduces the so-called Mahāyāna ("Great Vehicle") movement during the 1st century BCE and especially how the movement influenced Buddhist practices in East Asia. The second part of the course shifts to important topics in Chinese Buddhism such as magic, material culture, and environment. It also encourages students to relate Buddhist ideas to topics debated in contemporary society. Prerequisite: None. Fulfillment: GCS Major/Minor; GCS Elective: Chinese History, Society, and Culture.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture

GCHN-SHU 133 Visualizing Global China (4 Credits)*Typically offered every year*

Amidst China's burgeoning global economic presence, understanding its motivations and deciphering its overseas activities is vital. The Belt and Road Initiative and other expansive infrastructure endeavors underscore China's ambitions. However, the opacity of the Chinese government's plans poses a challenge for comprehensive research. This course introduces geovisualization as a lens to illuminate the spatial dynamics of China's global ventures. Using the extensive "Mapping Global China" database and geovisualization tools, students will investigate China's overseas investments' spatial patterns. This hands-on exploration will unravel the multifaceted impacts across various geographies. By course completion, students will adeptly harness spatial analysis to discern the nuances of China's worldwide economic endeavors and their broader implications. Prerequisite: None. Fulfillment: CORE SSPC/IPC; GCS Major Elective: Politics, Economy, and Environment of China; GCS Major: China and the World; Social Science Methods course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Methods Course
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 145 Food in Chinese History (4 Credits)

The goal of this course is to examine Chinese society and culture through the lens of the consumption of food and to elucidate the central role played at different times by food in Chinese culture and its representations. We examine the role of food in Chinese social, cultural, economic, and political history, with an emphasis on the pre-modern period. Topics may include the relationship of health and diet; food in religious and ritual practice; gastronomy; consumption and the material culture of food, including food as gift; regional cuisines; restaurants and catering; vegetarianism; famine and cannibalism; imperial dining practices; food identity; and global notions about Chinese food. Prerequisite: Not open to first-semester students. Fulfillment: CORE SSPC/HPC or CORE IPC; GCS Elective Chinese History, Society, and Culture; Humanities Major Advanced course (18-19 Topic Courses).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 156 History of Chinese Art (4 Credits)

Typically offered every year

This course surveys art, visual culture, and material culture in China from the Neolithic to the end of the 19th century. Approximately one-third of the lectures will be organized based on the different mediums used in art, such as ceramics, jades, bronzes, and sculptures. Some lectures are designed to contextualize art into separate functions, such as for funerary and Buddhist rituals. The rest classes stress the difference in patronage, such as imperial art and literati art. Particular attention will be paid to understanding objects within their original social and cultural contexts. We will also relate individual artworks to a broad cultural background, highlighting the influence of various religions, philosophies, and politics. The goal of this course is to familiarize students with the diverse body of artwork produced in premodern China, as well as to consider the role art has played in representing or negotiating identities, religions, history, and politics. Students will be trained in various art historical methodologies and will deepen their knowledge about one aspect of Chinese art history through a group curatorial project. Prerequisites: None Fulfillment: CORE HPC/IPC; GCS Elective Chinese Media, Arts and Literature; Humanities Major Other Introductory Courses (18-19 Survey Courses).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 164 The History of the Silk Road (4 Credits)

Typically offered occasionally

The Silk Road has been a museum exhibition sensation as well as inspiration for Indiana-Jones-type of adventures, ever since the name was coined in 1877. As appealing as the name is in all kinds of media, it is never quite clear what the Silk Road actually entails. What does it mean to you, for instance? Searching for an answer, you will encounter numerous websites, books, scholarly and popular articles, or TV documentations that seek to unravel its many mysteries and even travel agencies that aim at revealing its myths. By consulting archaeological as well as written sources this course is going to evaluate all aspects of early Silk Road history – trade, travel, war, religion, ideologies, and cultural exchange – from its earliest age through the Mongolian Era (13th century). The main goal is, however, not to look at every aspect in isolation as it is often done, but to bring them all together. This way it will become clear that actual reality was considerably more complex than is generally claimed. Only the interplay of several factors allowed The Silk Road to become a pre-modern 'success story' probably only rivaled by the internet. Pre-requisites: None. Fulfillment: CORE SSPC or HPC; IPC; GCS China and the World; Humanities Other Introductory Courses / Survey Courses (18-19).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 165 China and the Islamic World, c.600AD-Present (4 Credits)

One of the most significant geopolitical shifts of recent years has been China's increased interest and involvement in the Islamic world, from Afghanistan to Africa. However, although such connections are not new, scholars have rarely examined the long history of contacts between the Sinic and the Islamic worlds comprehensively and systematically. Assembling a wide array of primary and secondary sources on different forms of Sino-Islamic encounters, this course introduces the major events, issues, and peoples that are involved in the complex relations between them. In-depth discussions of these topics will not only provide students with new perspectives on the histories of the Islamic world and China respectively, but also historical insights to gain a deeper understanding of the newly revived Sino-Islamic relations and the emerging China-US-Middle East triangular relationship in the twenty-first century. This course welcomes all students interested in histories of the Islamic world and China. No special background is required, though of course some knowledge of the history of China and/or the Islamic world will be a plus. Although it is a seminar course (we meet once weekly), a fifteen-minute mini-lecture in each class will provide students with basic background knowledge and set the context for the following week. We will then devote ourselves to discussion of the assigned readings. Pre-requisites: None. Fulfillment: CORE HPC/IPC; GCS China and the World/ Electives Chinese History, Society, and Culture; Humanities Major Other Introductory Courses (18-19 Topic Courses/ Survey Courses).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 182 Crimes, Detectives, and Justice in Chinese Culture (4 Credits)

Typically offered every year

Crime stories have enjoyed long-lasting global popularity. How do these stories help us understand the shifting meanings of criminality, law, punishment, and justice across different times and spaces? What are the Chinese notions of crime and justice? How can these notions and ideas tell us about Chinese history and culture? This course explores the concepts and practices of criminal investigation and punishment throughout Chinese history. It guides students to examine a broad range of primary sources across textual and visual genres chronologically, from late-Imperial courtroom drama, detective fiction of the Republican period, spy comic of the Socialist time to contemporary legal films and crime thrillers. By adopting an interdisciplinary and comparative approach, students will also engage with studies on criminality, morality, law, justice, scientific investigation, and state control from historical, sociological, and philosophical perspectives in and beyond China. Throughout the course, students will understand how the concepts, practices, and representations of crime and justice continue and change throughout Chinese history and reflect on their profound impact on contemporary Chinese society. Pre-req: None. Fulfillment: CORE HPC/IPC; GCS Major: Chinese Media, Arts, and Literature.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 185 China in Ten Soundtracks: The Sonic World of Modern Chinese Culture (4 Credits)

Typically offered every year

This course surveys the sonorous world of modern Chinese culture from late Qing to the contemporary period. With a focus on sound, we will investigate diverse cultural forms ranging from public speech, sound cinema, popular music, and digital media, and explore how these artworks, by engaging with sound discursively and expressively, mediate questions of gender, identity, and technology in modern China. Following a chronological order, each week we will examine one prominent expression or theme of sound in a given decade and situate these sonic texts within local, national, and global histories. In so doing, we will learn to appreciate the vibrant creative impulses of modern Chinese cultural history and understand major cultural trends, artists, and socio-technological developments. Prerequisite: GPS or sophomore standing (or not open to first semester students). Fulfillment: CORE SSPC or IPC; GCS Elective Chinese Media, Arts, and Literature.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 200 Topics in Global China Studies (4 Credits)*Typically offered occasionally*

#Authenticity and Shanzhais(##) This course uses “fake markets” and “counterfeit” goods in Shanghai as a starting point for studying the concepts of originality and authenticity. Students in the course will learn about and challenge the western concepts of forgery, counterfeiting, and even history by analyzing Chinese alternatives such as shanzhai (##). We will examine the tension between several dominant ways of thinking about history and culture, and how these ways of thinking inform and are informed by political and economic trends. No prerequisite. Fulfillment: GCS Chinese History, Society, and Culture

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**GCHN-SHU 200A Topics in Global China Studies (2 Credits)***Typically offered occasionally*

Prerequisites: None. Fulfillment: GCS Chinese History, Society, and Culture: Historical Tourism in Shanghai; GCS Chinese Media, Arts, and Literature: Exploring Art Spaces in the City.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**GCHN-SHU 205 Hong Kong Cinema (4 Credits)**

This course introduces students to the distinctive cinema of Hong Kong (HK). We will focus on the years between 1967 and 1997, when HK rose from regional to international prominence, then declined. We will approach HK cinema from four perspectives: geopolitical history, film genre, directorial style, and the economics of the film industry. Students will learn to see these perspectives not as mutually exclusive but as complementary, for we can best understand a film by thinking about it from multiple angles. Students will write two essays, the first analyzing a film made before 1980, and the second analyzing one made between 1980 and 2000. Each student will twice lead discussion of readings from the syllabus. In a small group project, students will do research on a topic relevant to the course, make a bibliography of their findings, and then present those findings to the class. Prerequisites: GPS or sophomore standing (or not open to first semester students). Fulfillment: CORE HPC or IPC; GCS Chinese Media, Arts, and Literature; Humanities Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 206 Woman in Modern China Through Literature and Media (4 Credits)*Typically offered every year*

This seminar provides a chronological survey of women's narratives in modern Chinese literature and culture from the late Qing to the twenty-first century. In this course, we will cover a wide range of genres that narrate women and their gendered experiences, including literature, visual culture, cinema, and digital media, and explore how womanhood is imagined, articulated, and contested in modern Chinese literature and culture. Moreover, we will attend to literary and cultural texts by female artists, and explore how female artists express their creative agency and mediate disparate gendered experiences. These critical and creative engagements with the woman question serves as a pivotal momentum in the development of literary and cultural modernity in China, and they also reflect the broader socio-political landscape and cultural ecology of modern China. Prerequisite: GPS Fulfillment: CORE IPC/HPC; GCS Elective Chinese Media, Arts, and Literature; Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 207 20th-century Chinese Writers in Global Context (4 Credits)*Typically offered Spring*

The literary scene in the 20th century Chinese-speaking world is diverse in sound and script, vast in the scope of subject matters, and challenging for those migrant or exilic minds whose creative energy is driven by their critical insight to the world around them. Working in, outside, and between places like mainland China, Taiwan, Hong Kong, Malaysia, America, and France, Chinese-language writers may have in mind an imagined community of fellow countrymen when they write. Oftentimes, however, they may also ask provocative questions about nationalism, linguistic loyalty, and authenticity as Anglophone, Francophone, or bilingual writers living in the West. From and across multiple cultural margins, they speak to probe the nature of modernity, cultural contact, and otherness amid the global flows of labor and ideas. How do Lu Xun, Lao She, Ha Jin, Alai, and Gao Xingjian represent China on the world stage and find their place in this picture? Where in their works can we find stylistic and cultural hybridization? How do novels and stories by Zhang Ailing, Bai Xianying, Maxine Hong Kingston, Gish Jen, and Shirley Lim cement or deconstruct the conventional ground on which we compare Eastern and Western civilizations? What kind of an alternative literary geography, and worldview, do these writers offer? Prerequisite: None. Fulfillment: CORE HPC or IPC; GCS elective Media, Arts and Literature; Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 210 China Encounters the World (4 Credits)*Typically offered occasionally*

The course focuses on the cross-currents of China's encounters with the world, from the late 16th to the early 21st century. It proceeds from two assumptions: first, that China has long been engaged with the rest of the world rather than ever having been "closed", as some would have it; and second, that impact and influence flow in multiple directions: into, through, and out of China, whether intentionally or involuntarily. Through a combination of lecture, discussion, and student research projects we will explore China's encounters with the world chronologically and thematically, covering such broad topics as religion and philosophy; diplomacy; law; trade; war; revolution; political systems, and "soft power". Pre-requisites: None. Fulfillment: CORE HPC or IPC; GCS China and the World; Humanities Introductory course (18-19: survey).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr. NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr. NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr. NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 211 Chinese Architecture (4 Credits)*Typically offered Fall and Spring*

Chinese architecture is a product of a unique culture and geographic environment. It differed markedly from that of the world outside East Asia before the twentieth century. This course explores a diverse range of architecture in China from ancient to contemporary times. We will investigate how cities, palaces, temples, residences, and gardens are designed and constructed, and look into how form and space reflected Chinese social and ethical values. This course does not progress in a chronological sequence of dynasties. Instead, it is delivered in a series of themes that are related to essential aspects of Chinese history and culture. Special attention will be given to controversies between the tradition and modernity in China, and the global impact that Chinese architecture have had since a long time ago. Students will develop a deepened understanding of one aspect of Chinese architectural history through in-depth research or creative project on a well-conceived topic. Previous coursework in Chinese history, literature, or art is required. Please consult with the instructor regarding a special arrangement to fulfill the language requirement. Pre-req: At least one prior course in GCHN-SHU, HIST-SHU, HUMN-SHU or LIT-SHU or ECON-SHU 238. Fulfillment: CORE HPC or IPC; GCS Chinese Media, Arts, and Literature; Humanities Introductory course (18-19: Survey course).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr. NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr. NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr. NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 216 Psychology and Modernity in China (4 Credits)*Typically offered every year*

In this course, we will see how people in China have used psychology to build a modern nation and promote modern values. Beginning in the early 20th century, we will encounter missionaries trying to replace superstition with science, reformers challenging gender relationships, and intellectuals who critiqued the Chinese character. As we move through the century, we will trace how various people have applied psychological techniques for very different purposes: creating healthy citizens for a new state, instilling a revolutionary spirit, managing corporate employees, and raising exemplary children. During the semester, each student will conduct textual and/or ethnographic research about an aspect of psychological expertise or mental health in contemporary China. Prerequisite: Sophomore standing or above. Fulfillment: CORE STS; GCS Elective: Chinese History, Society, and Culture; Social Science Focus Anthropology 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr. NYU Shanghai: Science, Technology and Society
- SB Crse Attr. NYU Shanghai: Social Science Focus Anthropology

GCHN-SHU 220 History of Chinese Cinemas (4 Credits)*Typically offered Spring term of odd numbered years*

This course, the first segment in a two-semester survey of Chinese-language film history, traces the origins of Chinese cinema and its transformation and diversification into a multi-faceted, polycentric trans-regional phenomenon in China, Hong Kong, and Taiwan up to the 1960s. We study a number of film cultures in Shanghai/China, Hong Kong and Taiwan, including the complex web of their historical kinship ties, and place them within the regional and global contexts of modernity, revolution, nation-building, and attendant socio-cultural transformations. To investigate these unique yet interrelated films cultures together raises the question of national cinema as a unitary object of study, while suggesting new avenues for analyzing the complex genealogy of a cluster of urban, regional, commercial or state-sponsored film industries within a larger comparative and transnational framework. Topics related to screenings and discussions include urban modernity, exhibition and spectatorship, transition to sound, stardom and propaganda, gender and ethnic identities, and genre formation and hybridization. Prerequisite: None. Fulfillment: CORE HPC or IPC; GCS Chinese Media, Arts, and Literature.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr. NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr. NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 225 Cultural Translations: China and the West (4 Credits)*Typically offered every year*

This course offers a broad overview of cultural interactions between China and the West over the past four hundred years, beginning with the arrival of Jesuit missionaries in China in the late 16th century. It seeks to explore these cultural interactions through the lens of translation, examining both translated texts of major cultural and historical significance, and those created within translational contexts rather than as direct translations. The course approaches translation as an interpretive act shaped by linguistic and cultural factors. It also views translation as a reciprocal process, inviting students to explore both how key Chinese texts and ideas made their way into Western languages and how influential Western works and concepts have been introduced into China at various points in history. Through detailed case studies conducted within broad historical contexts, students will gain a deeper, more nuanced understanding of translation as a form of cultural exchange. Prerequisite: None Fulfillment: CORE HPC/IPC; GCS Chinese Media, Arts, and Literature.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 226 Queer China (4 Credits)

This course examines queer histories, cultures, and politics in China, focusing on contemporary China. It seeks to answer: In what contexts have queer China studies emerged as a field of studies, and how have they influenced queer studies rooted in Western experiences? What does it mean to be queer or non-normative in pre-modern, modern, and contemporary China, respectively? How have Chinese sexual discourses changed over time? How has sexuality been entangled with language, family, law, health, colonialism, and globalization in China? How can we envision a future of queer China in the global context? Drawing on literary, historical, and ethnographic works, as well as first-hand materials, this course invites students from across disciplines to explore the mutability and variety of queerness in China. Prerequisite: POH Fulfillment: CORE HPC or IPC; GCS Elective: Chinese History, Society, and Culture; Social Science Focus Anthropology 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology

GCHN-SHU 233 Foreign Societies in Classical Chinese Writing (4 Credits)*Typically offered occasionally*

This is a Classical Chinese class that covers writings on foreign societies in history. In this class, we will see how people used Classical Chinese to make records of foreign societies, descriptively or imaginarily. We will follow pilgrimages to India as well as adventures in Vietnam; we will encounter child-eating Dutch cannibals as well as people from the Country of Dogs. Beneath this exotic surface, we will examine the underlying schemes and tropes that are often used to describe foreign people and polities in Classical Chinese writing. In this way, we will know what to expect when we read a text of similar genre. Because this is a Classical Chinese class, we will learn how to use grammar and context to parse difficult passages: we will learn basic tactics to unpack sentences when their structures are unclear or the words' meanings are opaque. These tactics are especially crucial when one encounters an unfamiliar text without any outside help. Prerequisite: CHIN-SHU 402 (Classical Chinese II) or equivalent; OR Chinese students who have studied classical Chinese before; OR Instructor Permission Fulfillment: CORE HPC/IPC; GCS advanced track Language course for Native Chinese speakers; Humanities Advanced course (18-19: topic course).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 234 Dunhuang and Its Global Connections (4 Credits)*Typically offered occasionally*

Dunhuang is not only the "Pompeii of China" that in modern days attracts a huge amount of tourists; it was also one of the most metropolitan cities in the ancient world, comparable with Rome, Alexandria, or Constantinople. How could an inland city be so cosmopolitan? What makes the place a city of art? And how did this once fashionable city fade away, and then reappear as a complex of archeological sites? In this class, we will focus on one of the biggest archeological discoveries in the 20th century: Dunhuang. In addition to how Dunhuang was discovered, we will explore the main elements that vitalized Dunhuang as a metropolitan city: art, religion, language, literature, and technology. We will further examine the lifelines that brought these diverse cultural elements into Dunhuang from China, India, Central Asia, etc. As part of the class, we will also take a field trip to Dunhuang and nearby sites to physically experience the connectedness of Dunhuang. We will closely examine the murals, caves, and the city layouts so that we can reconstruct what it was like to live in the ancient Dunhuang. In other words, you get to be in the art world of Dunhuang. Pre-requisite: None. Fulfillment: CORE HPC or IPC; GCS China and the World.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 236 Immersive Narrative of Chinese Monuments (4 Credits)

Typically offered every year

This course combines digital visualization technology with contemporary interpretations of the significance of Chinese monuments that identify and recall major events in Chinese history. Students will learn about the history, cultural significance, and scholarly knowledge of the monuments. Selected sites include timber-structure buildings, Daoist temples, and Buddhist art and architecture. Meanwhile, the course will cover immersive narrative knowledge, such as direct modeling for Chinese wooden carpentry structures, artifacts lighting, texturing, rendering, and virtual walk-through animation. Visualization and further utilizations will apply in the lectures and assignments to examine virtual environments' authenticity and information management of the Chinese monuments. Students will create an immersive narrative using visualization tools to present a chosen monument site with its historical and cultural values in the final group project. Upon completing this course, students will have deepened their knowledge of the emerging field of the digital humanities through both a "digital" and a "humanistic" perspective and how digital humanities can be applied to visualize the history and culture of China. Prerequisite: Sophomore standing Fulfillment: CORE HPC/IPC; GCS Elective: Chinese Media, Art, and Literature, IMA major elective; IMB major IMA/B Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 243 China and the Environment (4 Credits)

Typically offered Fall and Spring

China is an environmental disaster. China will save the world. There are many ways to think about China and the environment, but few conclusive answers. Our challenge is to think in the midst of multiple crises unfolding quickly through a tangled web of relationships that constitute environmental problems or solutions. To better understand how the environment in China is imagined, valued, and transformed, we will explore traditional ideas, environmental history and governance, ethnicity, and the aesthetic politics of the urban and rural. We will explore local material changes in energy, food, and forests and their links with global systems. And we will conclude by considering again China's role in the global environmental crisis. Prerequisite: Passing grade of CCSF-SHU 101L Global Perspectives on Society Fulfillment: CORE SSPC or IPC; CORE STS; GCS The Politics, Economy, and Environment of China; Social Science Focus Environmental Studies 200 level course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 246 Youth and Consumer Culture in China (4 Credits)

Typically offered every year

How can a hamburger symbolize progress, an animated character provide comfort, and rock music define one's identity? In this course we will study the role of consumer culture in the lives of Chinese youth, both today and in the past. By examining popular commodities including sneakers, coffee, backpacking, and celebrity idols, we will think about how young people use these things to find friendship and love, to seek success and happiness, and to define who they are. As we consider why people like particular commodities, we will learn about class, gender, ethnicity, and modernity in China. Reading about the history of commodities in China, we will consider what is new about consumer culture, and why people's tastes change over time. Alongside studies of specific commodities, we will read key theoretical texts about shopping, advertising, media, identity, and fantasy: these texts will help us understand how commodities can be imbued with tremendous power to shape our desires and create our identities. During the semester, each student will conduct qualitative research about a commodity, including online research and offline interviews with people who buy and sell this commodity. At the end of the semester, we will gather your research together to produce a handbook of Chinese youth and consumer culture. Prerequisite: Sophomore standing. Fulfillment: CORE SSPC/IPC; GCS Elective: The Politics, Economy, and Environment of China; Social Science focus Anthropology 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 247 Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors. (4 Credits)*Typically offered Fall and Spring*

This course is a survey of the major historical and contemporary currents of China's religious thought and practice, including Buddhism, Confucianism, Daoism and "popular religion". It will focus on the interactions between such teachings and practices, as well as on the role of religion in Chinese society. You will study topics such as divination, visual culture, ritual, ancestor worship, morality, longevity techniques, healing practices and meditation. A selected number of primary and secondary sources will be discussed in each lecture; documentary films and visits to religious sites will be also key constituents of the course. Please note if you miss the first class of the term, you will need to contact the instructor to determine if you can still remain enrolled in the course. Fulfillment: CORE SSPC or IPC; GCS Chinese History, Society, and Culture; Humanities Interdisciplinary/Advanced Courses (18-19: Topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 248 Animals and Chinese Religion (4 Credits)*Typically offered every year*

The history of Chinese religion cannot be complete without non-human animals ("animals" hereafter). By consulting sources of various genres, the course aims to reveal how major religious traditions in pre-modern China—Confucian rituals, Daoism, Buddhism, and popular religion—utilized, imagined, and interacted with animals. The investigation also will expand to the contemporary debates over religious modernism and animal welfare/environmental ethics. The main goal of the course is to reveal to students how religious traditions and values were created, transmitted, and modified in different historical contexts. Besides, the course will provide a lens for students to compare the role of animals in various religious traditions and understand how these traditions interact with each other. Prerequisite: Sophomore standing or above. Fulfillment: CORE HPC or IPC; GCS Elective Chinese History, Society, and Culture; Social Science Focus Environmental Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies

GCHN-SHU 250 Geographies of China (4 Credits)*Typically offered every year*

Our goal is to map China. But rather than making maps through calculations or grids, we will be mapping China conceptually and theoretically. This is to say that in studying China's regions, physical geography, political territories, cities, counties, and people, our goal is to develop skills for thinking about China spatially. With thousands of years of recorded history and a political system oriented to progress and national development, China is often imagined in terms of linear time. However, from ancient walled cities to the Mao-era work-unit system to the more recent migrations of rural labor, understanding how political, commercial, and social spaces are organized is essential for understanding China's past and present. Prerequisite: GPS Fulfillment: CORE SSPC or IPC; GCS elective The Politics, Economy, and Environment of China; Social Science Focus Environmental Studies 200 level; Humanities Interdisciplinary or other Advanced course (18-19: Critical Concepts or Topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 255 Eat, Pray, Ponder: Chinese Intellectual Culture through the Ages (4 Credits)

This is a class about what Chinese people think and believe, and how they perceive the society to which they belong. The class will cover a wide range of material from Shang oracle bones, Confucianism, Legalism, Taoism, Buddhism, and various folk religions, to 20th-century debates on Western thought and Communism. This class highlights three general concerns: 1) although we will cover the main categories of Chinese thought (e. g. Confucianism, Taoism and Buddhism), we will emphasize the diversity of thought both within and outside those larger categories; 2) we will make clear that people's beliefs and thought changed frequently over time and space, and 3) we will examine how socio-economic conditions and the media used to convey ideas affect people's intellectual world and vice versa. No Chinese is required. Prerequisite: None. Fulfillment: CORE HPC or IPC; GCS Advanced track Language course for Native Chinese Speakers or Chinese History, Society, and Culture; Humanities Introductory course (18-19: survey/topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 263 Voices from the Margin: Modern Chinese and Sinophone Writers (4 Credits)*Typically offered Spring*

The literary scene in the modern and contemporary Chinese-speaking world is diverse, vast, and challenging for the migrant and exilic minds whose creative energies are often driven by their poignant insights to the turbulent events around them. Working in, outside, and between places like mainland China, Taiwan, Hong Kong, America, and parts of Southeast Asia, Chinese-language writers ask questions about nationalism, tradition, ethno-linguistic politics, and cultural authenticity. They speak from and across multiple cultural margins to probe the nature of modernity, cross-cultural contact, and otherness amid the global flows of labor and ideas. This course invites students to participate in the ongoing discursive and historiographical debates over the study of "modern Chinese literature" through a fast-emerging transnational and comparative perspective. Reading stories, novels, and essays by both established and marginalized writers, we place the traditional nation-based rubric of Chinese literary studies in critical dialogues with a set of jarring historical contexts: Euro-American imperialism, Chinese emigration and their settler-colonial history, the post-1949 political split, and global decolonization movements, among others. We ask: how do writers represent China on the world stage? Where in their works can we discern stylistic and cultural hybridization? How do they variously cement or deconstruct the conventional East-West divide? What alternative literary geographies and worldviews do they offer? We begin with the satirical modernists of Republican-era China. Next, we turn to Hong Kong and Taiwan for identity debates, colonial legacies, nativism, and postmodern cultures. In light of the global migration history, we also study narratives from Chinese-speaking America, Malaysia, and Singapore to analyze how writers creatively deconstruct the notion of Chineseness. Finally, we discuss the changing terms of exclusion and inclusion of ethnic minorities in present-day Han-Chinese societies, to further expose the internal fractures within the global Sinophone cultures. (This may be used as a topic course or literary interpretation in the Humanities.) Pre-requisite: None. Fulfillment: CORE IPC/HPC; GCS China and the World or Chinese Media, Arts, and Literature; Humanities Introductory course; Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 264 Chinese Migrant and Diasporic Networks (4 Credits)*Typically offered Spring*

This course introduces students to the history and cultural formations of worldwide Chinese migrations and diasporic communities, including change over the last two centuries and evolving global diasporic relationships and interactions. Some topics of interest include Zheng He's legendary maritime travels on the imperial treasure fleets, the opium trade and its implication for early transnational Chinese capitalism, labor migration and exclusion in North America, socio-political and cultural indigenization of Chinese communities in Southeast Asia, and the coolie trade in the Caribbean region. Materials of study include history, essay, literature, and film. Prerequisite: GPS. Fulfillment: CORE HPC/IPC; GCS China and the World; Humanities Introductory course (18-19: topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 265 Women in China: From May 4th to Me Too & Beyond (4 Credits)*Typically offered every year*

This course focuses on the lives of women in China over the past century. Through a range of sources students will examine the advances made, and challenged encountered, by women in China. Students will analyze the impact, and often unforeseen consequences, of state political, economic and social policies, on women's lives. In addition to documenting the many major improvements in the quality of most women's lives, the course will also address the challenges that women continue to face, such as the ongoing influence of traditional sexist values (####), trafficking of women, high-suicide rates, domestic-violence, and work-place gender discrimination and harassment. The course will conclude with an examination of different imaginings of the long-term impact of China's critical demographic gender imbalance. As much as possible the experiences of women from a range of backgrounds, including different socio-economic, regional, ethnic, and religious backgrounds, will be incorporated into the course. Sources will include government policies, memoirs, short stories and science fiction, films, and academic books and articles. Prerequisite: None. Fulfillment: CORE HPC/IPC; GCS The Politics, Economy, and Environment of China.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 267 Good Death: China and Comparative Perspectives (4 Credits)*Typically offered Fall and Spring*

What makes a “good death”? How do people imagine, interpret, and describe the processes of dying? How do individuals respond to, live through, and move beyond the death of others? How do beliefs, customs, material cultures, and social structures co-constitute the lived realities of death? Drawing on insights from medical anthropology, anthropology of religion, and anthropology of ethics, this course explores diverse perspectives on the “good death”. With a primary ethnographic focus on China, using an interdisciplinary and comparative approach, we will investigate: 1) the sociocultural constructions of death, 2) the processes of aging and dying, 3) the practices of end-of-life care, 4) debates about voluntary death, 5) how the living deal with the deceased, and 6) how people live with irrevocable losses. Prerequisite: GPS or sophomore standing (or not open to first semester students) Fulfillment: CORE SSPC/IPC; GCS Major Elective: Chinese History, Society, and Culture.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 277 Medicine in China (4 Credits)*Typically offered Spring*

How did people in ancient and modern China understand health and treat illness? Historically and now, has “Chinese medicine” been an insular or open system? What can health perceptions and healing practices tell us about historical changes in China and its changing relationship with the world? Drawing on insights from the history of medicine and medical anthropology, this course explores health and healing in China through five chronologically organized units and one diachronically comparative unit. We will consider the cosmological, philosophical, and sociological factors that shape different visions of health. We will examine how local and global political processes affect healing practices and their perceived legitimacy and investigate what illness and remedy-seeking experiences reveal about the wider contexts in which medical activities take place. Prerequisite: GPS or sophomore standing (or not open to first semester students). Fulfillment: Fulfillment: Core IPC; GCS Major/Minor Elective Chinese History, Society, and Culture; Social Science Focus Anthropology or Global Public Health 200 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology
- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

GCHN-SHU 283 Reading and Viewing Modern China (4 Credits)

This is a multimedia course designed to help students in reading, translating and critiquing primary source-based cases in modern Chinese history. For this, several sets of original documents covering different periods and events and reflecting different perspectives will be selected, and related documentary films will be shown and discussed in class. Taught primarily in Chinese this course demands a high competence in Chinese is required to take the course. Prerequisites: Native Chinese fluency OR confirmation of adequate language competency for the course through a pre-enrollment test. All interested non-native speakers should contact the Chinese Language Program for an advanced proficiency placement test. Fulfillment: CORE HPC or IPC; GCS elective in Chinese History, Society and Culture; GCS Advanced track Language course for Native Chinese Speakers; Chinese for Advanced Undergraduate Research.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Glob China Stds Chinese for Adv UG Research Adv Tr
- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 311 Global Connections: Shanghai (4 Credits)*Typically offered Fall and Spring*

Any writing on Shanghai today seems to run out of superlatives to describe the city's dazzling transformation, spectacular architecture, and booming economy. But is it really the Global City it strives to be? In this course we will explore this question by looking into the urban development of the city from its status as a relatively unimportant trading town to the world metropolis of today. Besides regular seminar classes, the course involves field trips and guest lectures, and each student has to do their own semester-long research project. Prerequisite: Sophomore Standing. Fulfillment: CORE SSPC/HPC or IPC; GCS China and the World; Humanities Interdisciplinary/Advanced Courses (18-19 Topic); Social Science Focus Self-Designed/Urban Studies - 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

GCHN-SHU 316 Chinese Art and Architecture in Cross-cultural Contexts (4 Credits)

Typically offered every year

This course is a research seminar that prepares the students for researching, translating, and critical writing in Chinese art and architecture in a cross-cultural context. The first half of the semester will progress with different topics, including, but not limited to, landscape paintings, Buddhist art, ceramics, and gardens and architecture. To tackle research questions and problems in these fields, the students will get familiar with Chinese collections of major international museums and online Chinese art and architecture databases. They have to discuss and debate over terms from Chinese primary sources translated into English. They will also present their critiques on scholarly works focusing on cross-cultural approaches and methodology. The second half of the course allows students to make progress on a research project. They may choose a specific cross-cultural issue in Chinese art/architecture or opt to critique a historian's work from a cross-cultural perspective. Upon completing the course, the students will expand their knowledge in Chinese art and architecture from a global perspective and enhance research and critique skills to serve more humanistic disciplines.

Prerequisite: Sophomore standing or above. language prerequisite:

Intermediate II or Chinese native speaker. Fulfillment: GCS Major Requirement Chinese for Advanced Undergraduate Research or Language requirement course for Native Chinese Speakers for Advanced GCS Track.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Prerequisites: Intermediate II or Chinese native speaker.

- SB Crse Attr: NYU Shanghai: Glob China Stds Chinese for Adv UG Research Adv Tr
- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)

GCHN-SHU 318 Sex and Power in China, 1500–1950 (4 Credits)

Typically offered every year

This course explores the history of China (ca. 1500–1950) through the lens of gender and sexuality. By examining topics such as Confucianism, commercial sex, and women's religious activities and literary achievement, it makes a case for gender and sexuality as drivers of historical change. It considers not only women and women's history, but also men and masculinity, gender-nonconforming communities, and the changing relationship between gender, sexuality and social, economic, and cultural power. Students will be introduced to key questions in the study of Chinese cultural history and the history of gender and sexuality through a range of primary and secondary sources as well as film and multimedia. Our discussion will also be informed by cross-cultural comparisons with cases from other East Asian societies. Prerequisite: CHIN-SHU 201 Intermediate Chinese I or native speakers Fulfillment: Core IPC; GCS Major Elective: Chinese History, Society, and Culture; GCS Advanced Track: Advanced Undergraduate Research; Chinese Language and Literature Minor.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Glob China Stds Chinese for Adv UG Research Adv Tr
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 350 Tianxia: Traditional China and the World (4 Credits)

Typically offered Spring term of even numbered years

China at the Center? An Exploration of Chinese Foreign Relations from Pre-imperial to Late Imperial Times The main title of this course is an allusion to a book authored by Mark Mancall in 1984. However, there are some crucial differences between his approach to Chinese foreign relations and the subject of this course. Mancall has claimed – as have so many scholars before and after him – that Chinese interactions with the outside world were dictated by an ideology that saw China's culture as superior to the surrounding 'barbarians.' This concept is now widely known as the so-called 'tributary system.' We are going to explore whether such assertions indeed have any merit. One little hint: things might not have been as easy as they appear at first glance. Over the course of the semester we will be tracing Chinese foreign relations from roughly the 6th century BCE (was there even a 'China' that could set itself apart from the 'other'?) through the 19th century CE, that is to say the period when the Qing dynasty (1644-1911) was forced to interact with western powers such as the British Empire. Even today when there seems to be an abundance of media coverage, the meanings of bilateral or multilateral exchanges take quite some effort to deduce; too many details remain hidden from the public eye. The (ancient) past, of course, is even less generous with data. Nevertheless, there is plenty of information to be had; we just have to look for it. Thus, participants in this course will have the opportunity to immerse themselves in various kinds of sources: historiographical records, material culture, or personal diaries to name but a few. In doing so, our main objective will be that we develop a critical, analytical attitude toward said sources that will ultimately lead us to a more nuanced understanding of Chinese dealings with the outside world. Prerequisites: at least one GCS course. Fulfillment: CORE HPC or IPC; GCS China and the World; Humanities 18-19 Topic.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 360 Reading Medieval China through Dunhuang Manuscripts (4 Credits)

The course is designed to present ordinary people's life in medieval China through the window of Dunhuang manuscripts. The materials discussed in the course will cover religious beliefs, divinatory practices, social interactions, governmental administration, medical treatment, etc. The course will also train students to read and translate raw, unedited primary sources. Furthermore, the course will also present the uniqueness of manuscripts compared to transmitted texts. Students will be introduced to important reference books. Through class discussions and translation homework, the course aims to prepare students for further study of premodern China. Prerequisite: CHIN-SHU 301 Advanced Chinese I or placed out of Advanced Chinese I or native Chinese speakers. Fulfillment: Core HPC/IPC; GCS Chinese for Advanced Undergraduate Research; GCS Advanced-track Language course for Native Chinese Speakers. (Fulfill the language requirement for study away students who are native speakers of Chinese).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Glob China Stds Chinese for Adv UG Research Adv Tr
- SB Crse Attr: NYU Shanghai: Global China Studies Language (For Advanced Track)
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

GCHN-SHU 397 GCS - Independent Study (1-4 Credits)

Department consent. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

GCHN-SHU 400 Global China Studies Senior Capstone Seminar I (4 Credits)

Typically offered Fall

Fall Semester: Methodologies in China Studies; Spring Semester: Research Project Seminar. The first semester of this two-semester capstone course will focus on examining the importance and shortcomings of Chinese primary sources and data, familiarizing with and learning how to access and use key archives, museums, libraries, research tools, databases, and digital websites, and analyzing some of the pivotal books and articles on China. Students will also draft a research proposal, with a preliminary bibliography, and identify a faculty mentor for the second semester of the capstone course. During the second semester, students will work primarily with their respective mentors, but are required to also participate and make presentations at a weekly research seminar. Those opting for Advanced GCS major must demonstrate competency in reading and analyzing Chinese language sources. Pre-requisite: Senior Standing in GCS Primary Major Fulfillment: GCS Two-semester Capstone Course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone

GCHN-SHU 401 Global China Studies Senior Capstone Seminar II (4 Credits)

Typically offered Spring

Fall Semester: Methodologies in China Studies; Spring Semester: Research Project Seminar. The first semester of this two-semester capstone course will focus on examining the importance and shortcomings of Chinese primary sources and data, familiarizing with and learning how to access and use key archives, museums, libraries, research tools, databases, and digital websites, and analyzing some of the pivotal books and articles on China. Students will also draft a research proposal, with a preliminary bibliography, and identify a faculty mentor for the second semester of the capstone course. During the second semester, students will work primarily with their respective mentors, but are required to also participate and make presentations at a weekly research seminar. Those opting for Advanced GCS major must demonstrate competency in reading and analyzing Chinese language sources. Pre-requisite: Senior Standing GCS Primary Major AND completion of GCHN-SHU 400. Fulfillment: GCS capstone requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone

GCHN-SHU 997 Global China Studies Independent Study (2-4 Credits)

Typically offered occasionally

Department consent. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

Global Programs (GLBL-SHU)

GLBL-SHU 10 NYU Shanghai Reality Show: Musical Writing, Production, and Performance (0 Credits)

Typically offered Summer term

This non-credit, intensive theater course, guides students in creating, producing, directing, and performing all aspects of the NYU Shanghai Reality Show, a performance to be presented in Shanghai in September. In the course, students will design the show, write lyrics and music of the songs; choreograph the dance performances; design set, lighting, and other creative production elements of the performance; be guided in acting and directing; learn to direct the performance; participate in peer review of the rehearsals; manage the movement of the show from New York to Shanghai; and perform the Musical for an audience of several hundred people in Shanghai. NYU considers this course to constitute a full-time course of study over the ten weeks of the program. The number of hours per week of classroom instruction will be at least 18. The course is taught by NYU Tisch School of the Arts faculty.

Grading: Ugrd Shanghai Pass/Fail

Repeatable for additional credit: Yes

History (HIST-SHU)

HIST-SHU 101 What is History (4 Credits)

Typically offered Fall

This course provides an introduction to a range of theoretical frameworks and methodologies that have influenced the academic study of history, including microhistory, global history, histories of gender and race, and subaltern/post-colonial historical studies. We will interrogate the key categories of historical temporality and geography by questioning how historians impose temporal and spatial boundaries around their research, as well as ways to expand or dissolve those boundaries. We will also examine how historians construct historiographical debates around particular research themes, such as the changing meaning of national histories. The aim is to acquire knowledge of a variety of historical approaches at work when reading both historical scholarship and historical source materials. Prerequisites: None. Fulfillment: Humanities Foundations/Introductory Courses (18-19 Critical Concepts Core Course).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HIST-SHU 102 What is Art History? (4 Credits)

Typically offered Spring

This course introduces a range of theories that have influenced art history, which here refers to both the purported narratives of the history of art and the practice of re/writing such narratives. We will analyze biography as a mode of art history; connoisseurship, iconography, formalism, and post-structuralist theory; Marxist and feminist approaches; and queer and trans* methods. Recognizing the Eurocentrism in the texts considered foundational to the discipline of Art History, we will examine the ways that art history was conceptualized in East Asia. The aim is to acquire knowledge of key art historical approaches; to apply that knowledge to assess works of art and art historical texts; and to analyze the impact of the historically specific relationship between the visual text and the viewer/historian on our knowledge of art. Prerequisite: None. Fulfillment: Humanities Foundations or Introductory Course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HIST-SHU 103 Oral History: Method and Practice (4 Credits)

Typically offered Fall of even numbered years

This course seeks to spark and develop curiosity in historical research with easy to practice and accessible primary sources collected from oral history interviews. Students will receive comprehensive training on: 1) What is oral history; 2) How did this research methodology develop in the English and Chinese academy; 3) What are the differences and similarities between oral history, social science survey questionnaires, anthropological field work, and journalism; 4) How to prepare for the interview; 5) Important issues to be aware of during the interview; 6) Post-interview preservation of photos and memorabilia, audio and video files; audio transcript and video footage editing; and 7) How to use the data collected from oral history interviews for publication. Prerequisite: None. Fulfillment: Humanities Introductory Course; Social Science Methods course; GCS elective Chinese History, Culture and Society.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

HIST-SHU 110 U.S. History through Literature and Film (4 Credits)

Typically offered occasionally

This survey of U.S. History since the Civil War examines the development of American Culture and its expansion into the global economy. Topics include: urbanization; industrialization; immigration; reform movements (populism, progressivism, the New Deal, and the War on Poverty); and foreign policy. Beginning with the post-Civil War expansion of the U.S. into the American West, the course traces the U.S.'s increasing global influence through the early 21st Century. Using film, TV, literature and popular culture, the course emphasizes broad themes and changes in U.S. culture, politics, and society. Prerequisites: None. Fulfillment: Humanities Introductory course (18-19: survey/topic).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HIST-SHU 130 Arab-Islamic Influence on the West (4 Credits)

Typically offered Fall of odd numbered years

This course utilizes multidisciplinary sources of evidence to address Arab-Islamic knowledge and culture, the influences that they had on medieval and early modern Europe, and that they continue to have today, while questioning why many Western scholars have minimized Arab-Islamic contributions in favor of "Western Exceptionalism" narratives. By exploring cross-cultural transmissions of knowledge, students are encouraged to think critically about how ideas and technologies evolve as they are adopted by individuals and groups in order to suit their personal and cultural needs. Prerequisite: None. Fulfillment: Humanities Major Other Introductory Courses; Social Science International Relations Track 200 level focus course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations

HIST-SHU 150 Asian American History (4 Credits)*Typically offered occasionally*

This course explores how the history of imperialism and nativism have shaped the racialization of Asian Americans. We examine key historical events, policies, and social movements that highlight how the American empire's reach across the Pacific and Asia intersected with domestic racial anxieties to forge a unique space for Asians within the American racial hierarchy. From the Chinese Exclusion Act of 1882 to the internment of Japanese Americans during World War II, and from annexation of Hawaii in 1898 to Cold War refugees from Southeast Asia, students gain a nuanced understanding of Asian American identity, community, and resistance. This course aims to foster a deep appreciation of the rich and diverse history of Asian Americans and the ongoing struggle for equity and inclusion within the broader tapestry of American history. Prerequisite: None. Fulfillment: Humanities Introductory Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HIST-SHU 155 Chinese American History: From the California Gold Rush to the Cold War (4 Credits)*Typically offered every year*

This course provides an overview of Chinese American history and its relevance for contemporary issues in the China and the United States. There are over 50 million people of Chinese heritage outside of mainland China, Taiwan, and Hong Kong, and those in the United States have helped shape the course of Chinese history over the last hundred and fifty years. For the China side, this course covers major factors driving Chinese migration during the Qing, Republic of China, and People's Republic of China periods, and the different impact Chinese migrants had on the economy, culture, and political structures of China. For the U.S. side, this course covers the first wave of Chinese immigration in the 19th century, the rise of anti-Chinese movements, Chinese Exclusion, and the experiences of Chinese Americans during WWII. Prerequisite: None. Fulfillment: CORE HPC/IPC; GCS China and the World; Humanities Introductory course (18-19: topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

HIST-SHU 156 Europe Since 1945 (4 Credits)*Typically offered occasionally*

Covers the impact of World War II, the postwar division of Europe, the onset of the Cold War, the economic recovery and transformation of Western Europe, Stalinism in Eastern Europe, the 1960s and events of 1968, the origins and development of the European community, and the cultural and intellectual life of European nations in this period. Ends with a discussion of the Eastern European revolutions of 1989 and their significance, together with the reunification of Germany, for the future of the continent. Prerequisites: None Fulfillment: Humanities Major Other Introductory Courses (18-19 Survey Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HIST-SHU 157 A Global History of Mathematics (4 Credits)*Typically offered Fall of even numbered years*

This unique interdisciplinary course, which fulfills both the Math and STS Core Curriculum requirements, interrogates the persistent notion that mathematics is fundamentally Western, by exploring the invention and evolution of foundational mathematical concepts within their historical and cultural contexts throughout the world. Using hands-on activities to explore historical mathematical challenges, students develop their problem-solving skills, and apply them to practical and theoretical questions. For example, how did earlier societies use sticks, stones, or strings with knots to record numerical data and make advanced calculations long before modern calculators and computers? An underlying theme is that numbers, mathematics, and computational methods do not simply exist, but are highly related to the cultures in which they were produced, and the accompanying historical circumstances. We conclude the course by considering the global future of mathematics, and whether it is capable of becoming increasingly diverse. Prerequisite: None. Fulfillment: CORE STS or Math requirement; Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Math
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

HIST-SHU 158 Is That Art? The Rise of the Avant-Garde (4 Credits)*Typically offered Spring*

The term avant-garde frequently appears in artistic contexts, referring to practices and practitioners against conventions and established institutions. How did avant-garde, a military term for vanguard in French, come to be associated with radical artistic experiments? Who were (and are) able to become avant-garde, and how? This course addresses these questions through a survey of European art and design from the 1860s to the 1970s, with a particular focus on Paris. We will discuss the "Impressionist" exhibitions, japonisme, abstract art and the dreams of revolutions and utopia, the invention of the ready-made, the death of art according to Dada artists, and more. This roughly chronological survey will be punctuated by examinations of the ways that social categories of identity, including race, gender, class, and sexuality, shaped membership to the avant-garde. Prerequisite: Writing as Inquiry or Sophomore standing. Fulfillment: Humanities Advanced course; IMA elective; IMB major IMA/B elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

HIST-SHU 188 Empires in World History (4 Credits)*Typically offered occasionally*

In this introductory history course, we will examine a range of empires from antiquity to modernity in locations around the world: Asia, Africa, the Americas, and Europe. How did the concept and form of "empire" inspire and constrain their subjects' understandings of belonging? How did ethnicity, religion, culture and language create connections or obstacles across imperial regimes? How did empires create and recreate concepts of territorial (or extraterritorial) rule, and how did emperors exercise power across their regimes? And why did this form of power and governance demonstrate such durability across time and space? To answer these and other questions, students will read a range of primary and secondary sources aimed at exploring the political culture – both local and global in scope – of imperial regimes across time and space. Prerequisite: None. Fulfillment: Core IPC; Humanities Introductory course; Social Science Focus International Relations 200 level course; GCS elective China and the World.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations

HIST-SHU 200 Topics in History: (4 Credits)*Typically offered occasionally*

Prerequisite: None. Fulfillment: Humanities Advanced Interdisciplinary Course, other Humanities Advanced Course

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HIST-SHU 205 History of Modern Medicine (4 Credits)*Typically offered Fall of even numbered years*

This course covers the history of medicine in Europe and North America from the eighteenth century to the present. We will explore how perceptions of illness and health changed over time in relation to transformations in politics, society, science, and technology. Drawing on primary and secondary sources, you will learn how to place medical texts, techniques, and artifacts within their epistemic, historical, and socio-political contexts. Topics will include: the historical development and organization of medical knowledge and its branches; corresponding shifts in explanations of disease; the role of modern institutions and technologies in the study and control of diseased individuals and infected populations; the rise of the hospital; the relationship between medicine, science, and industry; the shifting doctor-patient relationship; the social meanings of illness; and the changing burden of disease. Prerequisite: None. Fulfillment: CORE STS; Humanities Other Introductory course; Social Science Focus Global Health 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

HIST-SHU 208 Europe's Long Twentieth Century (4 Credits)*Typically offered occasionally*

This course provides an introduction to modern European history since 1900. Following the world wars, Europe's reconstruction was based on a principle of peace through prosperity and the ideal of an 'ever closer union.' In recent years, however, the combined economic and migrant crises, Brexit and the Russian invasion of Ukraine have put this postwar consensus to a test. Analyzing a wide array of primary materials, the seminar familiarizes students with key problems of modern European history. Individual sessions examine fin-de-siècle culture and modernity; imperialism and colonialism; the causes and effects of the world wars; the Holocaust; the Global Cold War; the revolution of 1989 in Eastern Europe; and whether a distinctive European identity has developed since the post-war period that can withstand the entangled crises of the early twenty-first century. Prerequisites: None. Previous knowledge or experience is welcome but not required Fulfillment: Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HIST-SHU 209 Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700 (4 Credits)*Typically offered Fall*

The study of “witchcraft” and the witchhunts of early modern Europe has brought enormous insight to our historical understanding of popular culture, gender, social conflict, religion, and law. This course examines European ideas about witchcraft in the sixteenth-eighteenth centuries and how the European model of witchcraft became exported to other parts of the Atlantic world (Africa, North America, South America) during the early-modern period of European economic and colonial expansion. In addition, we will explore how non-European concepts of the supernatural, magical, and divine differed from or intersected with European beliefs and assumptions at the moment of cross-cultural encounter. Prerequisite: None. Fulfillment: Humanities Advanced course (18-19: survey).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HIST-SHU 210 History of Death, Dying, and Grief: The Impact of Modern War (4 Credits)*Typically offered occasionally*

This class will examine the changing nature of death, dying and grief since the late 19th century by focusing on modern wars as instruments of change. As both the number of mortalities and the manner of death changed, so too did private and public ways of dealing with death. Societies around the world modified their understandings of death and created new ways of dealing with the dead, in body and in spirit, as wars became deadlier and dying assumed an increasingly unfamiliar shape. Some of the questions we will consider in this class include: -how is death represented in social memory during and after war? -the changing ways of dying – what is a “good” death and what is a “bad” death on the battlefield and at home? -how has the act of killing changed and how does it influence our understanding of death? -how mourning practices change, both in the private and public sphere, as a consequence of war -how do national commemorative practices interact with our private understandings of death and dying? -in what kinds of spaces do the living and the dead interact? -what elements of modern war foster these changes? Do all wars shape death and dying in the same way? What common features exist and what elements are culturally specific? Prerequisites: Not open to first-year students. Fulfillment: Humanities 18-19 Topic Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**HIST-SHU 220 Chinese American History: From the California Gold Rush to the Cold War (4 Credits)***Typically offered every year*

This advanced, research seminar course provides an overview of Chinese American history and its relevance for contemporary issues in the China and the United States. There are over 50 million people of Chinese heritage outside of mainland China, Taiwan, and Hong Kong, and those in the United States have helped shape the course of Chinese history over the last hundred and fifty years. For the China side, this course covers major factors driving Chinese migration during the Qing, Republic of China, and People’s Republic of China periods, and the different impact Chinese migrants had on the economy, culture, and political structures of China. For the U.S. side, this course covers the first wave of Chinese immigration in the 19th century, the rise of anti-Chinese movements, Chinese Exclusion, and the experiences of Chinese Americans during WWII. Prerequisite: None. Fulfillment: Humanities Advanced course (18-19: Topics).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HIST-SHU 225 The Global Space Age (4 Credits)*Typically offered occasionally*

Over the course of the twentieth century the infinite void that surrounds planet Earth stimulated the human imagination as never before. For several decades, anticipation of human spaceflight was intimately bound with futuristic visions of technoscientific progress, while space exploration became key to societal self-images. This course charts the rise and fall of the Age of Space from a global perspective. Individual sessions will be devoted to the ‘rocket fad’ of the Weimar Republic, Nazi ‘wonder weapons,’ the so-called Sputnik shock and the American moon landings, UFOs and alleged alien encounters, as well as providing an introduction to the historical origins of techno-nationalism, from the Cold War to today’s Space Race in Asia. This is an advanced undergraduate seminar open to juniors and seniors. Participants should have taken at least one history class and have written a research paper with bibliographical references. Prerequisite: POH OR any HIST-SHU OR any HUMN-SHU course Fulfillment: CORE STS; Humanities Advanced course (18-19: Digital Approaches or Topic)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

HIST-SHU 230 Life beyond Earth: Extraterrestrials since 1897 (4 Credits)*Typically offered Fall and Spring*

Whether intelligent life exists outside the confinements of planet Earth is an old question to which an abundance of new answers has been given over the course of the twentieth century, from philosophy, religion and science fiction to anthropology, communication studies and astrophysics. Located at the intersection of European and American cultural history, the history of science and technology, literary studies and film, this class charts the manifold figurations of the alien since its modern invention in 1897. Individual sessions will be devoted to invasions from Mars and Venus, H. G. Wells and Liu Cixin, UFO sightings and alien encounters, but also to the search for extraterrestrial intelligence known as SETI, NASA's Voyager missions, the making of astrobiology into a scholarly discipline, the so-called Plurality of Worlds, Ancient Astronauts and Rare Earth controversies and many other aspects of modern extraterrestrialism. Ultimately, humankind's self-understanding as a species is defined, tested and exposed when confronted with radical alterity, be it real or imagined. Prerequisite: any HUMN-SHU OR any HIST-SHU course OR POH. Fulfillment: Humanities Interdisciplinary course or Advanced course; Social Science Anthropology track 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology

HIST-SHU 239 New York: History of the City and its People (4 Credits)*Typically offered occasionally*

Examines key themes in the social history of New York City: the pattern of its physical and population growth, its social structure and class relations, ethnic and racial groups, municipal government and politics, family and work life, and institutions of social welfare and public order. Pre-requisites: None Fulfillment: CORE STS; Humanities Advanced course (18-19: Digital Approaches or Topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

HIST-SHU 265 The Emergence of the Modern Middle East and North Africa (4 Credits)*Typically offered every year*

This course provides a brief introduction to the emergence of the modern Middle East and North Africa from 1699 to the end of WWI. Its geographic scope comprises the central provinces and territories of the former Ottoman and Safavid empires: Turkey, Iraq, Syria, Iran, Egypt, Levant, and North Africa. The syllabus emphasizes four analytical themes: first, the historical evolution of "Middle Eastern" polities from dynastic and religious empires in the 18th century to modern "nation-states" in the 20th; second, the impact of industrial capitalism and European imperial expansion on local societies and their modes of production; third, local conceptions of modernity and measures of modernization in responses to European colonial expansion; Islamic and secular reform movements; nationalism and revolution; fourth, the ideological and socio-cultural dimensions of these large-scale transformations, specifically the rise of mass ideologies of liberation and development and the emergence of new issues in the areas of gender, identity, and popular culture. Major historical events include two world wars, creation of "new orders," (constitutional republics, Islamic regimes or authoritarian states), projects and challenges of postcolonial state-building. Prerequisite: None. Fulfillment: Humanities Advanced course; 200 level focus course for the Social Science International Relations track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations

HIST-SHU 280 The Two Koreas (4 Credits)*Typically offered Spring term of odd numbered years*

This course explores the political, economic, and cultural transformations on the Korean peninsula from late colonial times to the contemporary situation of two Korean nation-states. We will pay close attention to ideological, socio-economic, and cultural differences as well as similarities between both Koreas. We will also consider the ways in which postcolonial competition between the two states affected the lived realities of their peoples in transnational historical contexts. Most audiovisual sources and literary texts are in English, and no previous knowledge of Korean is required. Prerequisite: None Fulfillment: Humanities Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HIST-SHU 301 Material Culture: History You Can Touch (4 Credits)*Typically offered Spring term of odd numbered years*

History is found in more than books. Objects and places can also be sources of knowledge as well as areas of study in their own right. This advanced course explores the possibilities and limitations of history you can touch, or material culture. Students will read case studies from circa 1500 AD to the present that employ theories and methods of material culture. During weekly labs, students will gain hands-on experience describing, contextualizing, and analyzing human-made and natural objects, images, food, trash, instruction manuals, fashion, and inventories. They will think of objects in terms of their structure, function, assemblage, context, and biography. For their final paper, students will write a chapter for A Material History of Life at NYU-Shanghai, which applies material culture theories and methods to their own lives. Prerequisite: None. Fulfillment: Humanities Advanced Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HIST-SHU 303 Histories and Politics of Noise (4 Credits)*Typically offered occasionally*

In this seminar, students will consider the idea that “noise” has a history, and that its history dates long before the industrial revolution’s ratcheting up of noise levels due to heavy machinery and the reproduction and amplification of sound through electronic technologies. Some noises pierce our ears and disrupt both our hearing and our thinking. In contrast, background noises may be loud, persistent, and even harmful to our ears, but they suffuse our everyday lives so fully that we can ignore them. Despite our daily subjective encounters with noise, can noise have a political meaning as well, one that transcends our individual experiences with din and discord, cacophony and clamor? This course explores noise’s relationship to history and politics. By spending the semester reading, talking, and writing about noise, we will seek to comprehend it rather than contain it. Prerequisites: None. Fulfillment: Humanities Interdisciplinary/Advanced course (18-19: Critical Concept/Topic)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HIST-SHU 305 When Science Goes Wrong (4 Credits)*Typically offered Spring*

This course will survey the applications of scientific naturalism to the human realm in nineteenth-century Europe and America, with a focus on the development of hereditarianism across the social and psychological discourses of the Victorian era (1838-1901). The course will introduce you to the history of what we today call the pseudo-sciences (such as phrenology, Social Darwinism, and eugenics) and explore how naturalistic explanations of crime and degeneracy were articulated and disseminated in the service of racist policies and imperial/colonial agendas. Drawing on primary and secondary sources, you will learn how to evaluate these long-discredited knowledges of the past seriously on their own terms and develop a critical understanding of their epistemic, cultural, and socio-political contexts. Prerequisite: Perspectives on Humanities or any HIST-SHU course OR any HUMN-SHU course OR any PHIL-SHU course OR any LIT-SHU Fulfillment: Core STS; Humanities Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

HIST-SHU 310 The Birth of Psychology (4 Credits)*Typically offered Fall of odd numbered years*

Psychology is one of the most popular fields of study in universities today, captivating our curiosity about the human mind. But how did psychology become a key discipline in defining what it means to be human? This course traces the rise of scientific psychology from the 1880s to the 1970s, exploring major psychological systems such as functionalism, psychoanalysis, behaviorism, and cognitive psychology. As part of this exploration, you will engage in hands-on learning by replicating foundational experiments. For example, we will recreate Ebbinghaus’s memory experiments to study the forgetting curve and Skinner’s conditioning experiments to observe real-time behavior changes. By engaging with these classical experiments, you will gain experiential insights into how psychological concepts emerged from practical research, while also exploring their development within broader historical, intellectual, and socio-political contexts. Prerequisite: Perspectives on Humanities or any HIST-SHU course OR any HUMN-SHU course OR any PHIL-SHU course OR any LIT-SHU Fulfillment: CORE STS; Humanities Advanced Interdisciplinary course; Social Science Focus Psychology 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

HIST-SHU 325 The New Cold War History (4 Credits)*Typically offered occasionally*

This is a reading and research seminar with an emphasis on the “new Cold War history—a scholarly phenomenon emerging in the 1990s, along with the end of the global Cold War and the new opportunities to conduct multiarchival and multi-source research for scholars of international history. Students in this class will be exposed to various new interpretations, new methods of research, and new ways of thinking associated with the new Cold War history studies. Readings in this class will be focused on the scholarship that has appeared since the early and mid-1990s. Students are required to write several books reviews and a comprehensive review essay, as well as to present and critique the comprehensive review essay in class. The ultimate purpose of the course is to help students take the Cold War as a useful reference to pursue a better understanding of the challenges facing the human race in the 21st century. Prereq: None. Fulfillment: 18-19 Humanities Major Topic Courses; Social Science Focus 300 level International Relations.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations

HIST-SHU 330 Popular Culture and the Scientific Revolution (4 Credits)*Typically offered Spring*

In this history seminar, we will explore some of the quintessential concepts of the scientific revolution, the multivalent ways in which these ideas were disseminated, contemporary reactions, as well as the interrelationship between popular culture and scientific processes. Rather than analyzing scientific happenings as though they occurred in a vacuum, there will be a strong emphasis on situating competing ways of knowing within the contemporary social, political, economic, and cultural contexts. While developing their abilities to analyze primary sources and critically engage with scholarship—both orally and in writing—students will question overly simplified linear narratives of scientific and mathematical change, as well as the notion that scientific “advancements” were inevitable. Prerequisite: GPS or Sophomore standing. Fulfillment: CORE STS; Humanities Advanced Course (18-19: topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

Humanities (HUMN-SHU)

HUMN-SHU 101 What is Literature? (4 Credits)*Typically offered Spring*

This course provides an introduction to literary theories and methodologies. We will analyze such different approaches to literary expressions as classical, modern, structuralist, post-structuralist approaches; Marxist, colonial and post-colonial approaches, including feminist and post-human methodologies for different literatures. The course will emphasize the shifts and turns in these approaches. The aim is to acquire knowledge of a variety of literary approaches at work when reading literature and of the relationships between text, author, writing and audience. Pre-requisites: None Fulfillment: Humanities Foundations/Introductory course(18-19: Critical Concepts/Survey).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 110 What is Science and Technology Studies? (4 Credits)*Typically offered Fall*

This course is an introduction to Science and Technology Studies (STS), an interdisciplinary field treating science and technology as socially embedded enterprises. We will examine how social, political, cultural, and material conditions shape scientific and technological activity and how science and technology, in turn, shape society. You will become familiar with the basic concepts and methods developed by STS scholars in history, sociology, and anthropology and explore how the scope of the field has expanded to include a variety of empirical case studies, theoretical arguments, and scholarly debates. The kinds of questions we will explore include: What counts as scientific knowledge? How is it produced? How do scientists establish credibility? Can there be a scientific study of scientific inquiry? To what extent are science and technology shaped by historical context? Prerequisite: None. Fulfillment: CORE STS; Humanities Foundations/Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

HUMN-SHU 112 What is Human Geography? (4 Credits)*Typically offered Fall*

Human Geography is a field of study that takes into account the ways that social, cultural, economic, political and environmental dynamics shape our understandings of space, place, territory, borders and landscapes, as well as how geography influences social, cultural, economic, political and environmental dynamics in human societies. It conceives of geography not merely in geomorphic terms, but analyzes instead how geographies are always embedded within lived human experience and how humans engage, interact, and transform their geographies. This course will offer an introduction to the methods and theories that have shaped the field of Human Geography, both classics and cutting-edge scholarship. It will also provide students with background in basic research tools and techniques used by geographers. Prerequisite: None. Fulfillment: Humanities Foundational course, Social Sciences Core

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Social Science Core Course

HUMN-SHU 125 Paris, I love you / Paris, je t'aime: Literature, Culture and Society in la Belle Epoque (4 Credits)*Typically offered Spring*

This course takes as its subject the Belle Époque, that period in the life of France's pre-World War I Third Republic (1871-1914) associated with extraordinary artistic achievement, as well as the Second Empire (1851-1871) that preceded it. In this course, we will attempt to gain a deeper understanding of the literary works of this era by placing them in the context of the society within which they were produced, France's Second Empire and Third Republic. Like the United States today, the Third Republic was a polity in which issues of the rights of minorities, freedom of expression, the place of religion in the public sphere, and the proper relationship between democracy and imperialism were subjects of constant debate. Furthermore, like the U.S. but unlike contemporary France, the Third Republic relied much more on the market and less on state subsidies to support artistic endeavors. Among other questions, we will examine to what extent the cultural flowering of this period occurred as a result of, or in spite of, this reliance on market forces. Near the end of the course we will take on the challenge of Proust's *Swann's Way*, which we will read together in its entirety. Prerequisite: None. Fulfillment: Humanities Major Other Introductory Courses (18-19 Survey Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 135 The Global Experimental: Modernism and Beyond (4 Credits)*Typically offered every year*

Modernism is a 20th-century literary, artistic, intellectual, and theoretical movement. It started in the West from 1890 as a reaction to major socio-cultural, political, intellectual, economic, scientific, and technological developments that left many feeling unsettled, lost, and disillusioned. Modernism and modernist literature also took off in other locations in the world but not necessarily during the same period of 1890 to the 1940s. Furthermore, modernism in the West has arguably witnessed a comeback. This 200-level course covers the rise of modernism as a global phenomenon of thematic, generic, and stylistic experimentation and will draw attention to canonical writers from across the globe such as William Faulkner, Langston Hughes, Joseph Conrad, James Joyce, Frantz Kafka, Ngugi wa Thiong'o, Lu Xun, and Tayeb Salih. We will also situate literary modernism in relation to nineteenth-century literary realism, the subsequent postmodernism, and, where relevant, postcolonialism. Students will be exposed to different genres: these may include short stories, poems, visual arts, film, plays, novels, and theory; and as needed we will examine how visual culture, architecture, and popular culture interacted with, influenced, and were shaped by, modernist aesthetics. The course will unpack major thematic, generic, and stylistic elements found in modernist literature and artistic and visual forms. Prerequisite: None. Fulfillment: Humanities Introductory Course; Humanities Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 140 Magic and Realism in Latin American Fiction (4 Credits)*Typically offered Fall*

When Latin American writers burst onto the world stage in the 1960s, they dazzled readers with works that merged formal experimentation with local traditions. Soon the "magic realism" that made Rulfo, García Márquez, and Allende famous became synonymous with Latin America. But what began as a new literary sensibility quickly became a marketing label—and, for some, a straitjacket. Was magic realism just a way to sell a colorful cliché to readers in Europe and North America? In this introduction to Latin American fiction, we will study the rise and legacy of magic realism, along with some of the many alternatives that preceded and responded to it. We will study major figures from the 1930s to today to explore how they understood literature's political stakes and the writer's responsibility to history. Prerequisite: None. Fulfillment: Humanities Introductory Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 160 Translation in Theory and Practice (4 Credits)*Typically offered Spring*

How can different words say the "same" thing? This course explores the linguistic, aesthetic, cultural, and political implications of moving between languages. We will study key statements of translation theory, compare several versions of a single text, and read fiction that intentionally crosses linguistic boundaries. We'll even try our own hands at this fascinating, frustrating art. Knowledge of a language other than English is not required. Our goal is to learn how thinking about translation can make us more careful readers and writers. Prerequisite: None.

Fulfillment: Humanities Major introductory course

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 168 Penning the Self(ie): Orality, Literacy, Digitality, and the Literary Subject (4 Credits)*Typically offered occasionally*

Phone in hand, questions loom in our head: is digital technology destroying memory, communication, and interpersonal relationships? Will our kids read and write cursive? Is print media disappearing? The notion of writing as a technology seems far removed from our fast-paced, digital world; but it was not so long ago that writing constituted a technological advance that permeated Western societies. This course examines key moments in writing's history in order to understand its role in shaping the literary subject. We trace the shift from oral to written traditions in romance and courtly literature, then turn to the printing press, copyright and intellectual property, and conclude by examining how our relationship to writing in the past can inform our relationship to digital media in the present. Throughout the semester, students engage in an experiential learning project where they create a hero/ine whose story evolves from oral tradition, to written romance, to social media subject. Pre-requisite: None Fulfillment: Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 180 Korean Culture and Society through K-pop (4 Credits)*Typically offered Spring term of even numbered years*

Considers the trajectory of changes in the production, circulation, and reception of Korean popular music from the turn of the twentieth century to the latest K-pop hits across successive political, social, and economic junctures, with regard for major themes such as nationalism, race, gender, technology, and globalization; and investigates music culture in relation to hybridity, authenticity, transculturation, cyber-culture, and fandom, among other subjects Prereq: None Fulfillment: Humanities Introductory Course (18-19 Topic Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 181 Gender and Sexuality in Modern Visual Culture (4 Credits)*Typically offered Spring*

This course examines how ideas of gender and sexuality have shaped the production and consumption of visual culture from the late nineteenth century. We will examine a variety of visual and material texts that shape, criticize, and/or negotiate with contemporaneous gender and sexual norms. Focusing on these expressions' cultural and historical specificities, the students will assess gender and sexuality—and as an extension, the notions of normality, healthfulness, and self—as ideas that continuously evolve in response to social discourses. The course proceeds roughly chronologically. It starts with the nineteenth-century Euro-American context, in which modern ideas of gender and sexuality began to circulate authoritatively in medical and legal terms. It then moves onto more globalized contemporary perspectives that critique and/or expand the pronouncedly "Western" conceptions of identity and identity categories. Prerequisite: None. Fulfillment: Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 182 Contemporary East Asian Media Culture (4 Credits)*Typically offered Fall*

The last decades of the 20th century witnessed great changes in East Asian media culture. To understand these changes and the impact that they have made on global media culture, this course introduces students to cross-border popular media currents and exchanges that have occurred throughout East Asia as well as the technological transitions that have facilitated them. This course will examine key regional trends and trans-Asian engagements in media production and distribution systems with a particular focus on the analysis of film, TV dramas, anime, webtoons, digital games, advertisements, and popular music. Prerequisite: Writing as Inquiry or Sophomore standing Fulfillment: Humanities Introductory course; IMB major IMA/B elective; Social Science Focus Environmental Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies

HUMN-SHU 183 Global Environmental History (4 Credits)*Typically offered Spring term of even numbered years*

Climate change is a global environmental challenge, but what does “global environment” mean and how has history shaped our understanding of this term? This introduction to global environmental history explores how the material environment shapes and has been shaped by human actions. It investigates the circulation of people, commodities, and ideas through (neo)imperial networks and considers the political, economic, and social forces that have shaped our contemporary shared understanding of the non-human world. This course also challenges students to recognize who is excluded from this process of making a global environment and what is lost from such exclusions. Throughout the course, students will read and analyze primary and secondary sources and present a group project that explores connections between humans and the environment at a global scale. Prerequisite: None. Fulfillment: Humanities introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 184 Urban Geography (4 Credits)*Typically offered every year*

Today, more than half of the planet's population resides in towns and cities of different sizes. This is expected to rise to sixty-six percent by 2050, also known as “planetary urbanism.” In this course we will consider different understandings of what cities are, how they come into being and why. We will collectively develop an understanding of what it means to be urban and what the urban should look like. We will explore Global cities vs world class cities, urban development and poverty, urban social movements, urban governance, urban margins in the North and the South, urban environmental justice, and urban violence. This course introduces the methods and theories that have shaped the field of Urban Geography - providing students with research tools and techniques used by geographers. Prerequisite: None. Fulfillment: Humanities Introductory course, Humanities minor requirement; Social Science focus Urban studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

HUMN-SHU 190 Transnational Feminist Aesthetics and Politics (4 Credits)*Typically offered every year*

This course explores the link between writing and imagining a world by studying texts authored by women from varied historical, geographic and cultural contexts. Through the works of Bibi Khanum Astarabadi, Mary Wollstonecraft, Halide Edib Adivar, Phillis Wheatley, and other writers from Iran, Britain, the United States, Lebanon, Egypt, Palestine, and Turkey, the course asks students to consider what agency looks like in feminist writings from around the world. Building connections between seemingly disparate Eastern and Western literary, cultural and philosophical traditions, students will learn to revise the vocabularies and practices of feminism by decentering its Eurocentric configurations. Prerequisite: Global Perspectives on Society (GPS) or Sophomore standing. Fulfillment: Humanities Major Advanced Class (new bulletin); Topics Class (old bulletin).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 200 Topics in Humanities: (4 Credits)*Typically offered occasionally*

[Topics in Humanities: French Cinema: The Birth of the Seventh Art]

In 1895, when Auguste and Louis Lumière held their first private film screening in Paris, they could not have foreseen the pervasive role that cinema would one day play in our homes and our hearts. This introduction to French cinema traces the seventh art from its inception to the present day, focusing on pioneers of French cinema, surrealist film, the influential New Wave movement, and contemporary filmmakers.

In addition to the films that you will watch in and out of class, you will explore a variety of theoretical approaches to cinema and develop skills in film analysis through readings and class discussions. Films will be screened in French with English subtitles. Coursework will include several short writing assignments and film analysis projects. [Topics in Humanities: American History Makers You Probably Never Heard of] In this course we will explore the significance of ordinary and underappreciated individuals in major movements, developments, and events in United States and Chinese history. The assigned readings focus upon American, Chinese, and Chinese American individuals, moving back and forth across the Pacific and beyond. At the end of the course you will have completed a 1300-word (minimum) research essay, or an essay that synthesizes and reflects upon several of the assigned readings and explains the strengths and weaknesses of the texts and identifies opportunities for new scholarship. Along the way you will also present an analysis to your classmates of two primary sources that you will use in your essay, and provide constructive criticism on your fellow students' Draft essays. When we think of people who "make" history, we usually think about the high and the mighty, important political officials or intellectuals, prominent military or diplomatic leaders. But when we look at the past, the great changes that take place are often made possible by men and women who are not rich and famous, who don't occupy places of power – who in fact come from humble roots, from minority populations, who struggle for influence, and who were vital to helping create the world that elites envisioned, or fought for another vision entirely, or helped reshape the globe by merely pursuing their own self-interest. This course will explore some of these history makers, few of whom you've probably ever heard of, from the eighteenth century to the twentieth century. Each day we will focus on one or more history makers. We will read about them, read their texts, and learn about the role they played in history as well as the legacies they may leave for us. The history of the individual in the US, and of Americans in China, and of Chinese in America, will hopefully look different by the end of the semester. In this course you will critically analyze both primary and secondary sources of biographical writing and social history. You will study the genres, purposes of biographies, and how we should understand them. We will explore themes of national identity, race, diplomacy, gender, slavery, and sexuality, and you will explore how these concepts and approaches have been articulated differently by historical actors and historians writing for different purposes and audiences. Prerequisite: None. Fulfillment: French Cinema: Humanities Introductory course. History Makers: Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**HUMN-SHU 205 French Cinema: The Birth of the Seventh Art (4 Credits)***Typically offered Spring*

In 1895, when Auguste and Louis Lumière held their first private film screening in Paris, they could not have foreseen the pervasive role that cinema would one day play in our homes and our hearts. This introduction to French cinema traces the seventh art from its inception to the present day, focusing on pioneers of French cinema, surrealist film, the influential New Wave movement, and contemporary filmmakers. In addition to the films that you will watch in and out of class, you will explore a variety of theoretical approaches to cinema and develop skills in film analysis through readings and class discussions. Films will be screened in French with English subtitles. Coursework will include several short writing assignments and film analysis projects. Prerequisite: None. Fulfillment: Humanities Advanced course (18-19: topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 212 Paper City: Examining Urban Bureaucracies Ethnographically (4 Credits)*Typically offered every year*

In this advanced humanities course students will acquire a geographical foundation of the mundane public policies established by the urban bureaucracies as responsible for giving material and symbolic form to the power of the modern state. There has been an influx of digital platforms, such as ArcGIS in the realm of city management, which are set to alter the vulnerabilities among marginalized populations governed by the state. Through a combination of qualitative and quantitative techniques, we will interrogate the ways in which technologies of government have influenced urban policy making in metropolitan regions of the world. The final projects of this class will require students to build on ethnographic engagement with "fields" of their choosing, and use a visualization technology of their choosing to begin to rethink the neoliberal city. Prerequisite: At least one courses in HUMN-SHU, SOCS-SHU, or HIST-SHU Fulfillment: Humanities Advanced Interdisciplinary course or other Advanced course; Social Science Focus Urban studies/Anthropology 300 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course- Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

HUMN-SHU 214 European Thought and Culture: 1750-1870 (4 Credits)*Typically offered occasionally*

Study of major themes in European intellectual history from the end of the Enlightenment to the last decades of the 19th century, considered in the light of the social and political contexts in which they arose and the cultural backgrounds that helped shape them. Topics include romanticism, liberal and radical social theory, aestheticism, the late 19th-century crisis of values, and the rise of modern social science. Prerequisite: None. Fulfillment: Humanities Advanced course (18-19: topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 215 Excavating Deep Time: Literature and the Human Condition (4 Credits)*Typically offered every year*

This course engages with literary works that explore the long human and pre-human past, from prehistoric imaginaries to environmental visions in literature, history and culture. How did the public come to terms with unimaginable reaches of time through fossils and dinosaur bones? How did writers, philosophers and artists react to the discoveries of the first prehistoric cave art found in Spain in 1879, the Gilgamesh tablets unearthed in 1880, the "Peking Man" in 1921, the Lascaux caves in 1941 or the Tollund Man in 1950s Denmark? Through poetry, film and visual art, the course will analyze ways in which writers and others theorized modernity and representations of human culture, with an emphasis on environmental and ethical thought. Field trips include the Shanghai Natural History Museum and Guangfulin Archaeological Park. Prerequisite: GPS or Sophomore standing. Fulfillment: Humanities Major Advanced Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 229 Masters of Asian Cinema (4 Credits)*Typically offered occasionally*

This course introduces students to the basic concepts and methods in film studies by focusing on a select number of eminent auteurs in Asian cinemas. Our objectives are many: first, we situate within their particular socio-historical contexts the masterworks by master-directors like Akira Kurosawa, Yasujiro Ozu, Zhang Yimou, John Woo, Wong Kar-wai, Hou Hsiao-Hsien, Sanjay Leela Bhansali, Mani Ratnam, and Deepa Mehta. In doing so, we learn the divergent developments between and within Japanese, Chinese, and South Asian film industries. We then analyze how these directors make various stylistic choices to address issues of kinship, nation, gender, historical memory, modernity, and globalization. Against the background of 20th century cross-cultural encounters, we also study the contributions of these auteurs to world cinemas and the cross-fertilization in style between these film masters. Prerequisite: None. Fulfillment: CORE HPC; GCS Chinese Media, Arts, and Literature; Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 231 Making Sense of Contemporary Art (4 Credits)*Typically offered Spring*

Contemporary art is often dismissed as either too simplistic or pretentious. While this critique is sometimes valid, much contemporary art is a vital creative response to the cultural, political, and economic forces that shape our world. This course traces movements in North American and European art from 1945 to the present and explores key questions, including: How did postwar American art become a cultural weapon during the Cold War? Is Pop Art's relationship with consumer culture critical or complicit? Does our experience of reality inform the images we create, or do we build our reality to align with the images we project? Students will explore these questions and more through readings, discussions, hands-on analysis, field trips, and close study of significant artists, artworks, and art movements. By the end of the course, they will develop the skills to analyze, contextualize, and write critically about contemporary art, enabling them to make informed judgments about its relevance and impact on daily life. Prerequisite: None. Fulfillment: Humanities Introductory course; IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

HUMN-SHU 235 In Conversation: Black and Chinese Artists (4 Credits)*Typically offered every other year*

This course is a comparative study of the way a group of Black and Asian artists engaged with white western racism. As an advanced interdisciplinary seminar, this course is on the one hand intellectual, examining the historical subjugation of Black and Asian peoples to white peoples, and on the other hand practical, offering examples and exercises for artistic negotiation, resistance, and rebellion against racial hierarchies. Prereq: None. Fulfillment: Humanities Interdisciplinary/Advanced Courses (18-19 Topic Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 240 Gender, Sexuality, and Culture (4 Credits)*Typically offered Fall*

This course invites students to think about some of the most carefully controlled but also fervently sought-after questions since the time of Plato: what is the difference between gender and sex? What is the relationship between our gendered bodies, behaviors, and identities? How does sex, something we do, translate to the discourse of sexuality, something we talk about? What is the measurement of normality? If art indeed imitates and even changes life, in what ways do images of gender performance in literary and visual culture also reproduce and perhaps reshape our own experiences as gendered and sexed beings in a society? What can gender and sexuality tell us about the construction of culture, its boundaries, and its "outlaws"? Through the reading of philosophical, literary, historical, medical, and visual texts, and through discussions of case studies in mass media, we learn to see gender and sexuality as an evolving historical phenomenon rather than essentialist notions. We ask how the development of human interest in sexuality coincides with the burgeoning of governing techniques in modern times to police and promote sex simultaneously—as desirable and useful on the one hand, but also forbidden and harmful on the other. Lastly, as humanists, we ask how the boundary of our body (that is, our inside and outside in the most literal sense) is marked less by our blood cells, skin pores, or molecules than by our use of language. Prerequisite: None. Fulfillment: Humanities Interdisciplinary/Advanced Courses (18-19 Critical Concepts/Topic Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 250 Love and Hate in the Time of Dragons (4 Credits)*Typically offered Spring*

The European Middle Ages remains a common subject in popular culture, often as a setting for fantasy, romance, Arthuriana, warfare, and adventure. This fascination endures, in large part, because the period in question captures our imaginations with its mythical creatures, legends of chivalry, codes of honor, and damsels in distress. But at the heart of this reimagined world that has become so central to a collective cultural consciousness are the literature and events that inspired it. In medieval literature we find much more than dragons, manticores, King Arthur and his knights: we find the foundations for love, sexual relations, marriage, as well as the seeds of bias, exclusion, and persecution that endure into the twenty-first century. And while the Middle Ages did not invent these concepts, we can clearly trace a direct line back from the present to the shape they took during the 11th, 12th, and 13th centuries in the medieval West. This course begins with troubadour poetry as the foundation of 'courtly love,' a literary topos that continues to be proliferated in television, film, novels, and popular song. It examines the troubadours' role in shaping and gendering sexual desire, passion, and fin amor. We then turn to chivalric romance, where the concept of courtly love flourished in the adulterous adventures of knights and ladies—for true love and passion could only exist outside of marriage. In the second half of the course, we turn to another vestige of the medieval past by examining what the scholar Robert I. Moore has called "the formation of a persecuting society." We will look at how the Third and Fourth Lateran Councils sought to marginalize Jews, Muslims, and lepers, among others. We will read crusade chronicles, memoirs, and poetry that reflect and contribute to the growing culture of categorization and exclusion that emerged. Through class discussions and in-class activities, we will explore the connections between contemporary expressions of love and hate with their medieval origins. Prerequisite: None. Fulfillment: Humanities Introductory course (18-19: Topics)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 270 Topics in Humanities: (4 Credits)*Typically offered occasionally*

Prerequisite: None. Fulfillment: Japan's Empire in Asia: Humanities Advanced course, 18-19: Topic. China and Global Feminism: Humanities 18-19 Critical Concepts.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

HUMN-SHU 280 Writing Empire (4 Credits)*Typically offered Fall*

This course examines the historical and poetic dimensions of nineteenth-century British imperialism with a focus on the literature of the romantic period. As we explore the connections and tensions between imperialist politics and romantic aesthetics, we will follow three paths of inquiry: 1) how did empire inform the cultural and literary perspectives of the time, 2) what were the historical models and lineages empire was associated with both in political and literary discourses of the period, 3) what definitions empire and imperialism gained in romantic imagination, and how do they inflect the notions and concepts regarded quintessentially romantic such as the sublime? We will seek answers to these questions by returning to the landscape of the romantic period in a comprehensive and inclusive way, reading the works of marginalized authors alongside their rather widely studied contemporaries. Prerequisite: GPS or Sophomore standing. Fulfillment: Humanities Advanced Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 284 Modern European Philosophy (4 Credits)*Typically offered occasionally*

An examination of major philosophical ideas and texts in Europe in the 17th and 18th centuries, from the scientific revolution to the beginning of German Idealism, including works by Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. Prerequisite: None. Fulfillment: Humanities Introductory course(18-19: topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

HUMN-SHU 308 Legends & their Medieval Past: King Arthur, Robin Hood, Frodo Baggins, Daenerys Targaryen, and more (4 Credits)*Typically offered Fall*

The medieval world has long been a favorite setting for adaptation—from the mediums of literature, television, film, to theater, video games, historical reenactments, and more—the medieval provides seemingly limitless possibilities for representation and reimagination. But what is it about the medieval world that captivates our attention and leaves us always wanting more? How do artists' recreations of the medieval world distort, but also shed new light on our view of the past, while simultaneously shaping our understanding of the present? In this course, students will explore these questions through in-depth analysis of popular medieval texts and modern film/television adaptations of enduring figures like King Arthur, Lancelot, Robin Hood, William Wallace, Frodo Baggins, Daenerys Targaryen, and more. Prerequisite: Any Humanities course. HIST-SHU, LIT-SHU, PHIL-SHU and HUM-SHU Fulfillment: Humanities Advanced course, Advanced Interdisciplinary course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

HUMN-SHU 400A Humanities Capstone Seminar I (2 Credits)*Typically offered Fall*

Fall Semester - Part I: Students design and conduct an independent research project in their area of focus using the theories and methods with which they have become familiar over the course of completing the major. Prerequisite: Open only to Humanities primary major in the senior year. Fulfillment: Humanities Major Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Capstone

HUMN-SHU 401 Humanities Capstone Seminar (4 Credits)*Typically offered Spring*

Students design and conduct an independent research project in their area of focus using the theories and methods with which they have become familiar over the course of completing the major. Prerequisite: Open only to Humanities primary major in the senior year. Fulfillment: Humanities Major Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Capstone

HUMN-SHU 997 Independent Study I - Humanities (2-4 Credits)*Typically offered Fall and Spring*

Students are permitted to work on an individual basis under the supervision of a full-time faculty member in the Humanities discipline if they have maintained an overall GPA of 3.0 and have a study proposal that is approved by a Humanities professor. Students are expected to spend about ten to twelve hours a week on their project for 4 credits. Fulfillment: Humanities Major Topic Course (18-19).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

Interactive Media and Business (IMBX-SHU)

IMBX-SHU 1 Design Your NYU Shanghai (1 Credit)

Design Your NYU Shanghai is a first-year course to help you make the most out of your college experience. You'll be introduced to design thinking as a creative approach to explore majors and interests, craft global opportunities, and engage in intercultural connections. This action-oriented course uses rapid prototyping and reflection activities to ignite personal growth as you navigate this transformative time of your life. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**IMBX-SHU 100 Topics in IMB: (4 Credits)**

Prerequisite: None. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

IMBX-SHU 102 Global Experience Design (4 Credits)

Students are introduced to design thinking as a tool to make the most out of their NYUSH collegiate experience and prototype meaningful opportunities offered by NYU's Global Network. This course will use rapid prototyping methods to test out academic, career, and creative interests throughout the semester. Class discussions will explore topics such as wayfinding, purpose of college, reflective practice, as well as hearing global experiences from students and alumni. Prerequisite: None. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 103 Understanding Financial Technology (4 Credits)

"How would you like to pay?" A simple question may provoke diversified answers in the digital age. The financial applications of digital technologies, or so-called fintechs have engendered many alternative forms such as QR codes, mobile apps, and Bitcoin for financial activities including payment, loans, and investment. What technologies make these innovations possible? What are the aesthetic norms embedded in fin-tech app designs? How do the fin-tech companies interact with banks, policy-makers, and regulators? While Ant Financial and Tencent Finance make China the leader of fin-tech innovation, how does the global map of fin-tech innovation look like? After all, how have fin-techs re-shaped people's everyday life, and perhaps will reform human being? Through a weekly three-hour meeting, this course is to make sense of fin-techs from a wide variety of perspectives. Integrating lectures with workshops and company visits, this course will equip students with critical thinking and practical skills that allow them to dialogue with various actors, such as computer programmers, project managers, investors, as well as academic intellectuals. Prerequisite: Sophomore standing or above Fulfillment: IMB major IMA/IMB elective; Business and Finance Major Non-Finance Electives; Business and Marketing Major Non-Marketing Electives.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 105 Introduction to the Technology Innovation Process (4 Credits)

Typically offered every year

This course is for anyone who wants to be involved in technology innovations — not only inventors, but everyone who is interested in initiating, implementing, translating, and commercializing technology innovations. It will introduce the full process for the identification, invention, and implementation of new technologies. The lectures will address three major components of the innovation process: Needs finding and screening, Concept generating and screening, and Strategy development and business planning. With case studies on innovative products from around the world, successes and failures, practical advice, and 'Getting Started' discussions, students are encouraged to learn from real projects. The brainstorm sessions and group projects are designed to encourage students to apply important lessons to their own ideas. At the end of this course, students will gain a deep understanding of the entire technology innovation process and start work in developing or using technology innovations. Prerequisite: None. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 106 Introduction to Media Industries and Institutions (4 Credits)

Typically offered every other year

The traditional understanding of media industries reminds us of mass media such as TV, radio, newspaper etc. Digital technologies, however have reshaped how media is made, consumed, and comprehended by increasingly fragmented audience groups. Self-made public accounts, search-based video streaming platforms, and social media apps refreshed our vision of media and challenged the existing ways of running a successful media. How to develop a thorough understanding of the rapidly changing market? This course is an introduction to the media industries, with a particular focus on the institutional forces (i.e., market structures, law and regulation, technological advancement, and audience dynamics) that shape the content and forms of emerging media. Combining lectures and guest talks, this class will make sense of the key concepts, professional terms, and business logics embedded in the production and operation of the global media industries. Furthermore, we will take case studies approach to examining the economic and social influences of media companies in specific contexts, particularly China, U.S., and U.K. These knowledge, together with the analytical skills that the students will acquire through in-class discussions, will allow them to comprehend and cope with the interplay among technology, market forces, and regulators in a wide array of media companies, including television, film, news, social media, video streaming, and the media-related tech businesses. Prerequisite: None. Fulfillment: IMB major Emerging Media Foundation course or IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 110 Innovation Lab (4 Credits)*Typically offered Fall and Spring*

Innovation Lab is a foundational, intensive project-driven course where students explore current challenges and opportunities at the intersections of emerging media and innovation through the lenses of design, prototyping and innovation. The course helps students understand how these high-level concepts intersect with skills to form the basis for new applications of technology and human industrial art in business contexts and beyond. At the end of this course students will be able to think critically and holistically about not only what makes innovations possible but will also how to utilize emerging media technologies and ideas to bring innovations into the world that respect and acknowledge the values of design, iteration and innovation. Prerequisite: None Fulfillment: IMB Foundation course; IMA elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course

IMBX-SHU 201 The Minimum Viable Product (4 Credits)*Typically offered every year*

Increasing possibilities brought about by emerging forms of technology and decreasing costs of connecting people to things have not only enabled technological innovations, but have also opened the door to new applications, business models, products and services. Experimentation and calculated risk taking are keys to successfully harnessing the possibilities of today's most cutting-edge technologies and innovative methods to first build, understand and then redefine how humans and products interact. In this course, student 'co-founders' will conceive of and market a new media, physical or technology product designed to fit a market while also allowing them to accelerate and validate a sustainable business model. Students will 'get out of the classroom' and put these products into potential customers' minds. The course will touch upon topics such as how to design a minimum viable product, design a business model, talk and work with customers, and develop a product community. Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 210 The Strategist (2 Credits)*Typically offered every year*

Business success requires being different. To succeed, a business needs to stand out from the competition. This is the fundamental challenge facing the business strategist. In this course, we will develop a four-way framework to help us think differently and better and become better business strategists. The four components of the framework (4 C's) are: strategy from contrast, strategy from combination, strategy from constraint, and strategy from context. We will examine many examples of great business strategies of each of these four types, and we will also use this framework to help us generate entirely new strategies. Prerequisite: Sophomore standing or above. Fulfillment: IMB Business elective; IMA/B elective for the IMB major; Creativity+Innovation Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 212 Generative AI: A Business Revolution (4 Credits)*Typically offered every year*

This course examine how content creators, scientists and businesses can leverage Creative AI to disrupt existing businesses. As the power of creative AI is entering everyone's daily life, we can all become a new breed of creators. Whether it is through music, text or images, AI protocols can be used to create an infinite amount of content. In our lives today, content is a source of human jobs, revenue and value proposition for many businesses. In this course, we examine how this capacity to create unlimited content is challenging the status-quo of many business models. Prerequisite: Having completed at least one Business (BUSF, MKTG), Economics (ECON), or IMB (IMBX) course Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 220 Playing to Win: Game Design, Development, and Business (4 Credits)*Typically offered every year*

This workshop course asks students to investigate the intersection of media and business through the design, analysis, production, and marketing of games. Why do we play games? What makes them interesting? How does one create a game that people want to buy? Students will learn about the historical context and references of different types of games and study theories of design, interaction, and game development. They will apply and synthesize this theoretical knowledge by playing the role of game creator and constructing an original analog game. After identifying a target audience, students will engage in prototyping and testing with iterative feedback. They will also develop strategies for production, branding, and marketing of their game. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective; Creativity+Innovation Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 221 Content Creation and Management on Social Media (4 Credits)

Content creation and management on social media has become an indispensable element of our lives and an important building block for commercialization in the entire creator economy. Therefore, understanding content creation and management on social media from the business perspective is absolutely essential in the commercialization process, especially in the long term. The course is comprised of both knowledge-based and practice-based modules that help students gain transferrable skills in both content creation and management. It offers an in-depth analysis of the common operation strategies and business features of various entities in the "self-media" ecosystem. With some technical guidance, the students are also given the opportunity to organize their goals and resources and then strategically create video content that meets their initial targets. Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 222 Reinventing the Brand (4 Credits)*Typically offered Fall and Spring*

How do brands change and re-invent themselves? In this workshop course, you will play the role of brand strategist for an existing product or service, creatively re-branding it in a new light. Taking into account the current brand position and history, along with new consumer attention and technologies, you and your team will re-envision the brand's future. Over the length of the course, you will engage in a series of guided weekly design challenges to re-invent the brand — from demographic research to audits of brand competitors to logo creation. By the end of the course, you will have gained experience with both verbal communication and visual argumentation, along with hands-on creative branding innovation and practical business skills. Prerequisite: GPS or sophomore standing (or not open to first semester students). Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 230 User Research Fundamentals (4 Credits)*Typically offered every year*

This course will cover the foundation of user-centered research and guide students to apply three research methods to understand a real-world problem through an independent project, translating their research findings into insights that inspire solutions. Students will get exposure to both generative and evaluative research methods including in-depth interviews, contextual inquiries, participatory design, field research, survey, & concept testing. Students will learn and practice the key phases of user research including planning, execution, data analysis, and insight communication. Students will also select and apply appropriate methods for a given problem in a real-world scenario. By the end of the course, students will deliver an oral presentation to report their research to key stakeholders, and complete a written report that documents the research progress, key findings, and their critical review of selected user research methods. Prerequisite: GPS or sophomore standing (or not open to first semester students). Fulfillment: IMB major IMA/IMB elective; IMB Emerging Media Foundation.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 250 Prototyping for People (4 Credits)*Typically offered Fall and Spring*

Have you ever considered why the products and experiences we utilize operate or function the way they do? Have you ever dug beneath the surface of the physical thing in front of you and questioned why you choose to use it the way you do? Have you ever been frustrated by a physical interface? In our journey of learning about Human Factors we will explore design decisions that lead to how Humans interact with physical objects. We will look at case studies and examples of how ideas are developed as a result of Human Factors research and incorporate our findings into an object we design. Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 254 Introduction to Mindful Product Management (4 Credits)*Typically offered Fall and Spring*

Technology products and services are increasingly a huge part of how businesses reach their end-customer and Product Managers (PMs) are the ones to lead teams to build software that solve real problems. This course is designed as an introduction course of how PMs do this across a variety of contexts to evaluate customer needs, translate needs into functional requirements, prioritize different aspects of development, work with cross-functional teams, launch a product and create a holistic vision of how customers experience the product. This course will focus on lectures, discussions, case-studies and hands-on exercises that replicate a typical product process at a startup, tech or non-tech company. This course equips students with the mindset, tools, frameworks to mindfully discover, design and build things that make an impact and meet the needs of real humans. We will cover both core product thinking, and also how to translate that into practical ways to make decisions and build great products. Prerequisite: None Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 261 Global Media and International Law (4 Credits)*Typically offered occasionally*

This course examines the legal and regulatory instruments that shape and influence the flow of communication and media across international borders, starting with the first international treaties for the post, telegraph and radio in the late 19th and early 20th centuries. It then investigates how flows of communication and media are intertwined with current political and legal issues such as national security, freedom of expression, privacy, human dignity, and the general norms of world order. To what extent are media governed by law, and to what extent are they a law unto themselves, especially when they cross jurisdictional boundaries? Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective; Social Sciences International Relations track 200 level

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations

IMBX-SHU 262 Global Beauty Industry (4 Credits)*Typically offered every year*

This class explores the evolution of the global beauty industry from the nineteenth century to the present. Using materials such as primary and secondary sources and case studies, students will consider how entrepreneurs and cosmetic firms such as Unilever, L'Oréal, and Shiseidō have imagined and defined beauty throughout the globe. The course begins by tracing the historical factors that led to the formation of the industry. We will examine how firms translated societal values into brands, globalized them, and transformed societal perceptions of beauty. The course then analyzes new trends, such as the recent rise of the Asian beauty industry. The final section will look at the industry in the digital age and how firms have worked to resolve issues of their own doing. Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 263 Fashion Industry in East Asia (4 Credits)*Typically offered Spring*

This course examines the past, present, and future of the Asian Beauty industry, focusing on the contexts of China and Japan. It explores the rise of Shanghai and Tokyo as fashion capitals, covering topics such as fashion marketing strategies, the fast fashion phenomenon, the adoption of sustainable practices within the regional supply chain, and the influence of technology on fashion design and production. Additionally, the course discusses the impact of e-commerce and social media marketing on the industry. Through case studies and scholarly literature, students will gain a comprehensive understanding of the fashion business in the region. Prerequisite: Not suitable for first semester freshmen Fulfillment: CORE IPC; IMB major IMA/IMB Elective Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

IMBX-SHU 360 Global Media and Finance (4 Credits)*Typically offered every year*

This course leads the students to form a critical understanding of the media and communication dynamics that orient the flow of financial capital. The class will navigate the conjuncture of media and finance through the combination of theoretical training and analyses of empirical cases. We will look at financial activities both at the individual and firm levels, including stock market investment, financial management, home mortgages, student loans, credit scores, retirement funds, and micro-finance. We take three approaches to the media-finance encounter: media & communication studies, science & technology studies (STS), and political economy. We will analyze the events and cases pertinent to the communication of financial information via information network, interfaces, and media platforms. Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 362 Entrepreneurship and Globalization (4 Credits)*Typically offered every year*

Entrepreneurship and Globalization examines how entrepreneurs shaped the global economy from the 1800s to the present. Students will read and discuss case studies that examine the lives of some of the most prominent business founders and leaders in modern history through the framework of globalization. The cases explored in this course provide a dynamic framework for exploring the challenging decisions entrepreneurs faced in different eras of globalization between the nineteenth century to the present across a broad range of contexts and industries. Topics include the opium war, music, the fashion industry, bananas, sports and global media. We will learn about the creative ways that business leaders navigated cultural differences, information asymmetries, and conflicting interests. A typical class tries to get into the minds of the protagonists, establish the context in which they took decisions, debate the legacy of those decisions, and discuss how the class would have acted in those circumstances. Throughout the semester, students will research and develop a historical case study. Prerequisite: Completion of at least one Business foundation course (BUSF, MKTG, MGMT); junior standing or above Fulfillment: IMB Business elective, IMA/IMB elective for the IMB major; IMB minor; BUSF non-finance elective; BUSM non-marketing elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 400 IMB Capstone 1 (4 Credits)*Typically offered all terms*

IMB Capstone 1 is a course that guides students through designing an independent project integrating the mindsets, methods, concepts, and skills learned in courses offered through the IMB curriculum. Students will research, design, prototype, and create a proposal and work plan their project under the guidance and supervision of IMB faculty through workshop seminars. The IMB Capstone sequence takes place over two semesters and requires the completion of two main assignments: a research paper and a practical media/business project. Prerequisite: Senior students with a primary major in IMB + IMBX-SHU 110 Innovation Lab Fulfillment: IMB Major Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Capstone

IMBX-SHU 401 IMB Capstone 2 (4 Credits)*Typically offered every year*

IMB Capstone 2 is a course that guides students through prototyping and evaluating an independent project integrating the mindsets, methods, concepts, and skills learned in courses offered through the IMB curriculum. Students will research, design, prototype a project based on their IMB Capstone 1 proposal and work plan under the guidance and supervision of an IMB faculty mentor throughout the semester. The IMB Capstone 2 course requires the completion of a documentation portfolio and a practical media/business project prototype that creates measurable value for a chosen audience or user group facing a real-world problem or challenge. Prerequisite: IMBX-SHU 400 (IMB Capstone 1) Fulfillment: IMB Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMB Capstone

IMBX-SHU 501 Realtime (2 Credits)*Typically offered every year*

This course explores the disruptions and creative possibilities that realtime emerging media provides through the lens of learning how to design, create, produce and perform in realtime. Students will be learning how to design and produce for realtime interactive audiences, understand the modern streaming media pipeline, the fundamentals of virtual production, digital content creation and the basics of game engines and other software - all in the service of delivering a more engaging and intimate connection between audience and performer. Students will design and perform 2 distinct realtime performances as well as work together with peers to conceptualize, design and produce a short realtime 'pilot' using the tools and techniques you've learned in the first two projects. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

IMBX-SHU 9250 Prototyping for People (4 Credits)*Typically offered Fall*

Have you ever considered why the products and experiences we utilize operate or function the way they do? Have you ever dug beneath the surface of the physical thing in front of you and questioned why you choose to use it the way you do? Have you ever been frustrated by a physical interface? In our journey of learning about Human Factors we will explore design decisions that lead to how Humans interact with physical objects. We will look at case studies and examples of how ideas are developed as a result of Human Factors research and incorporate our findings into an object we design. Prerequisite: Sophomore standing or above. Fulfillment: IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**IMBX-SHU 9251 Design Innovation in Action: Project Mjolnir (2 Credits)***Typically offered Fall*

This course, Design Innovation in Action : Project Mjolnir, takes a hands-on, multidisciplinary approach to designing and developing elements and components of an open-source adaptive mountain bike for wheelchair users. Students will explore the intersection of human-centred design, engineering, and accessibility to develop this Award winning innovative mobility solution. Through collaborative projects, participants will engage in user research, prototyping, and testing to develop an adaptive mountain bike that enhances outdoor accessibility. The course emphasizes open-source design principles, ensuring that the final product can be freely shared, modified, and improved by a global community. Key topics include inclusive design, materials selection, mechanical engineering, rapid prototyping, and digital fabrication. Students will work closely with users and adaptive sports enthusiasts to refine their designs based on real-world needs and feedback.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**IMBX-SHU 9501 Going Live: Real-Time Streaming and Interactive Media (2 Credits)***Typically offered every year*

This course explores the disruptions and creative possibilities that realtime emerging media provides through the lens of learning how to design, create, produce and perform in realtime. Students will be learning how to design and produce for realtime interactive audiences, understand the modern streaming media pipeline, the fundamentals of virtual production, digital content creation and the basics of game engines and other software - all in the service of delivering a more engaging and intimate connection between audience and performer. Students will design and perform 2 distinct realtime performances as well as work together with peers to conceptualize, design and produce a short realtime 'pilot' using the tools and techniques you've learned in the first two projects. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

Interactive Media Arts (INTM-SHU)

INTM-SHU 101 Interaction Lab (4 Credits)

Typically offered Fall and Spring

In this foundation course students will be asked to think beyond the conventional forms of human computer interaction (i.e. the keyboard and mouse) to develop interfaces that consider the entire human body, the body's capacity for gesture, as well as the relationship between the body and its environment. Students will learn the fundamentals of electronics and programming as they build projects using the Arduino microcontroller platform. Arduino is a small computer based on open source hardware and software. When used in conjunction with various sensors and actuators, Arduino is capable of gathering information about and acting upon the physical world. In addition to these physical computing techniques, students will also learn to harness the methods of traditional computation. The fundamentals of programming will be explored using the Processing programming language. Processing has a simplified syntax and an approachable computer graphics programming model, making it an ideal platform for first-time programmers. Students will gain a deeper appreciation of the expressive possibilities of computation as they learn to author their own software and systems and not simply use off-the-shelf solutions. Additional topics will include algorithmic drawing and animation techniques, digital modeling and fabrication, data exchange, manipulation, and presentation, as well as control of images, audio and video, including computer vision techniques. Structured weekly exercises are aimed at building specific skills, however students are free to pursue their own diverse interests in their midterm and final projects. Prerequisite: None. Fulfillment: CORE AT; IMA Major Other Foundation; IMB Major Emerging Media Foundation.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: IMA Foundations
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course

INTM-SHU 103 Creative Coding Lab (4 Credits)

Typically offered Fall and Spring

In this foundation course students explore the fundamentals of computer programming and web development through a series of creative projects. The course aims to equip students with the skills to develop web-based applications that use the JavaScript language and the p5.js environment and include a significant computational component. Fundamental concepts, such as variables, functions, control flow, arrays, loops and object-oriented programming, are applied to create generative visuals, interactive experiences, and internet art projects. This course is intended for students with no prior programming experience. Prerequisite: None. Fulfillment: CORE AT; IMA Major Other Foundation; IMB Major Emerging Media Foundation.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: IMA Foundations
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course

INTM-SHU 110 Application Lab (4 Credits)

Application Lab is an intensive project-driven course where students explore current challenges and opportunities at the intersections of emerging media and innovation through the lenses of design, prototyping and innovation. The course seeks to help students understand how these high-level concepts intersect with skills to form the basis for new applications of technology and human industrial art. At the end of this course, students will be able to think critically and holistically about not only what makes innovations possible but will also how to utilize emerging media technologies and ideas to bring innovations into the world that respect and acknowledge the values of design, iteration and innovation. Prerequisite: None.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

INTM-SHU 120 Communications Lab (4 Credits)

Typically offered Fall and Spring

In this foundation course students will explore the possibilities of emerging media by successively producing projects that make use of digital images, graphics, audio, and video. The course is designed to provide students with a framework to effectively communicate and tell stories through digital means. Students learn through hands-on experimentation in a laboratory context and the principles of interpersonal communication, media theory, and human factors will be introduced in readings and investigated through discussion. Adobe Creative Cloud and other relevant software applications will be examined to establish a diverse digital toolkit. Both traditional and experimental outputs will be explored. Weekly assignments, group and independent projects, as well as documentation of projects will be assigned in each of the core areas of study. Prerequisite: None. Fulfillment: IMA Major Other Foundation; IMB Major Emerging Media Foundation.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Foundations
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course

INTM-SHU 124 Emerging Technologies & Computational Arts (4 Credits)

Typically offered Fall

Emerging technologies, such as artificial intelligence, blockchain, and immersive media, are rapidly changing the creative industries and society as a whole. Through discussions, debates, critical reflection, research, and hands-on practice, this course will allow students to fully comprehend these emerging technologies. This course will also introduce contemporary methods and approaches, both in theory and practice, on how they can be leveraged to create innovative works within the area of computational arts. Prerequisite: None. Fulfillment: CORE STS; IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

INTM-SHU 125 Digital Arts and New Media (4 Credits)*Typically offered occasionally*

This course investigates digital art and new media from creative, theoretical, and historical perspectives. We will examine the paradigm shift resulting from the rise of digital art and its expansion as well as explore current ideas, creative strategies, and issues surrounding digital media. The topics of study will include digital image, digital sound, net art, systems, robotics, telematics, data art, and virtual/augmented reality. The course provides students with the means to understand what digital media is, and establish their own vision of what it can become, from both a practical and a theoretical perspective. The course consists of lectures, field trips, and small studio-based practices. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 126 Introduction to 3D (2 Credits)

This is a course designed to convey the fundamental concepts and essential skills needed to create 3D graphics using the open-source software Blender. Topics covered in this course include: Blender interface and navigation; basic modeling techniques and related mathematics; physically-based rendering (PBR) workflow, shading and materials in Blender; lighting and environment setup; camera positioning and framing; principles of animation, keyframes and curves; rendering and output. By the end of the course, students will have a solid foundation in 3D modeling, shading, lighting, rendering, and animation, and will be able to create their own 3D graphics with Blender. This course is suitable for beginners with no prior experience in 3D graphics or Blender. However, some experience in video editing or graphic design may help. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 129 Industrial Design in Action (4 Credits)*Typically offered Spring term of odd numbered years*

Industrial Design in Action is a course that will help you bridge the gap between your ideas and their physical form. From initial research to conception, you will apply different design methodologies that lead to innovative ideas. You will acquire a fundamental understanding of form, function, and design language, all while harnessing the art of sketching and visual storytelling to effectively convey your creative vision. In addition, you will become familiar with Computer-Aided Design (CAD) software, explore a wide range of materials, and experiment with a myriad of fabrication techniques, from basic hand tools to advanced digital fabrication. You will learn to use the right tool for the job. Altogether, these skills will enable you to transform a concept into a polished prototype. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 129T Digital Design and Fabrication (4 Credits)*Typically offered Fall of odd numbered years*

Digital Design and Fabrication is a course about bridging the gap between your ideas and their physical form. You will become familiar with digital modeling softwares as well as with IMA's fabrication lab equipment, from basic hand tools to advanced digital fabrication technology. You will learn to use the right tool for the job. Pre-req: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 130 Working with Electrons (4 Credits)

This class focuses on the curiosity behind the greatest discovery of electromagnetism. By replicating experiments both with magnetic and electrical fields, we will explore the major breakthroughs that enabled us to power up devices, connect people, and store information. During the course we will have seminar discussions analyzing texts that contextualize the lab experiments and we will work toward conclusions on the implications of these discoveries. We will analyze different perspectives that led to the development of theories about the electromagnetic field, radio waves transmissions, and the quantum properties of electrons. Students will propose their own creative experiments, linking their personal interests with how electrons behave. As part of their final project report, they will submit an essay describing the technical methodology, critical framework, and the results of their experiment. Throughout the course they will acquire a working knowledge of components like capacitors, lasers, antennae, and circuit prototyping tools. Prerequisites: None Fulfillment: CORE ED; IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 132 Kinetic Light (4 Credits)

Typically offered Spring term of odd numbered years

The practice of using light and motion as artistic media traces its roots back to the architectural design of spiritual structures in ancient cultures and the use of fire and shadow in religious ceremonies. However, not until the invention of electricity, the incandescent bulb, and electric motors did light and motion really become artistic media themselves. The current availability of cheap and abundant sources of motion and light have opened up new possibilities for the creation of sculptural objects which compose structures in light and movement. Drawing upon the combined histories of lumina, kinetic sculpture, and op art, we will be investigating the historical and current developments of kinetic art and light art. Students will create kinetic light sculptures of their own design, building upon and expanding their knowledge of digital fabrication, physical computing, and generative software systems. They will learn how to compose in color, light, rhythm, movement, and space and how to install and present their work in a public setting. Prerequisite: INTM-SHU 101 Interaction Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 134 Movement Practices and Computing (4 Credits)

People use their bodies in the workplace whether they are dancers or athletes, managers or engineers. Physical wellbeing, social teamwork, and cognition may be affected by our movement practices. How do people use physicality and motion to think? What is the interaction between body, motion, place, and goals? We will explore these questions by building physical-computing-based systems that encourage us to bring movement into new times and places in daily life, that coach users and develop learning environments for movement practices, and that test our understanding of ways that we “think with the body”. In this course we will bring practices such as fitness, dance, sports, and martial arts into a series of interactive installations, movement learning projects, and workspace modifications built on computing, sensing and actuator technologies. In this course we will also explore these questions through review of existing creative projects in this area, readings, presentations, and knowledge-sharing sessions. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 138 Responsive Environments: Designing Interactive, Sentient, and Intelligent Spaces (4 Credits)

Typically offered occasionally

In this course, students focus on the study and development of responsive environments, framed within a contextual and critical exploration of the architectural space as a cultural, social and technological phenomenon, and also on the application of practical scenarios for interaction, sentience, and intelligence. Through the making of creative media designs and physical prototypes, students aim to demonstrate how our habitats/spaces/architectures can facilitate novel frameworks for experiencing and living. Prereq for INTM-SHU 138 is Creative Coding Lab OR Interaction Lab OR Application Lab OR Media Architecture Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 138T Extended Perception (4 Credits)*Typically offered occasionally*

Utilizing technological and scientific research / case studies / artifacts, this class introduces students to the topic of enhanced / extended perception and how technological augmentation allow us to sense and perceive alternative layers of our surrounding world, reconfiguring our understanding of what reality really is. Students will be asked to develop their own prototypes that demonstrate a conceptual or functional outcome on how perception can be extended, enhanced, or even hacked. prereq for INTM-SHU 138T is Interaction Lab, Communications Lab, Creative Coding Lab, Application Lab, Media Architecture Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 140T-A Open Project Salon (2 Credits)

This course offers students the opportunity to develop a self-initiated project with close mentorship from a faculty member. Projects undertaken can span the areas of conceptual research, business development, creative practice, and media production. The course includes structured weekly workshop and critique times with peers and special guests. It is expected that students will embrace open-source and open-content ideals in their work, be invested in the work of their peers by providing feedback, and consider the feedback they receive during critique. In addition to weekly meeting times, students are expected to also participate in regular one-on-one meetings with faculty, peers, and guests. A formal project proposal, weekly assessments and documentation, a final project presentation, and participation in the IMA End of Semester show are all required. Although students are encouraged to continue work they may have initiated in a prior class, they may not combine or in any way double count work from this class in another class taken in the same semester. Group work is allowed assuming all group members are enrolled in this class. Students may take this course in the first 7 weeks for 2 credits or take INTM-SHU 140T-B in the second 7 week or take both of them across 14 weeks for 4 credits. It is open to anyone in any major assuming they have satisfied the prerequisites. Prerequisites: None Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 140T-B Open Project Salon (2 Credits)

This course offers students the opportunity to develop a self-initiated project with close mentorship from a faculty member. Projects undertaken can span the areas of conceptual research, business development, creative practice, and media production. The course includes structured weekly workshop and critique times with peers and special guests. It is expected that students will embrace open-source and open-content ideals in their work, be invested in the work of their peers by providing feedback, and consider the feedback they receive during critique. In addition to weekly meeting times, students are expected to also participate in regular one-on-one meetings with faculty, peers, and guests. A formal project proposal, weekly assessments and documentation, a final project presentation, and participation in the IMA End of Semester show are all required. Although students are encouraged to continue work they may have initiated in a prior class, they may not combine or in any way double count work from this class in another class taken in the same semester. Group work is allowed assuming all group members are enrolled in this class. Students may take INTM-SHU 140T-A in the first 7 weeks for 2 credits or take this course in the second 7 week or take both of them across 14 weeks for 4 credits. It is open to anyone in any major assuming they have satisfied the prerequisites. Prerequisites: None Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 141 Art and the Anthropocene: Material-Based Activism (4 Credits)*Typically offered Fall of even numbered years*

This course will focus on Eco-Materialism (circular design principles – reuse, recycle, renew & rethink) and emergent practices based on principles of Gaia theory, symbiosis, and other systems-centered theories in conjunction with some of the origins, influences, theories, processes, and manifestations of art installation. We will read, watch, and discuss perspectives on Eco-Materialism genres and installation art written/created by artists, curators, art historians, and critics and view work by eco artists and installation artists. Students will create their own installations and writing, experiment with diverse biomaterials, and learn and combine craftsmanship and digital techniques to explore and create their own materials. Do-It-Yourself activism and Critical-Making will enable students to participate in new modes of civic engagement. Moreover, the course will motivate them to remain independent from pre-determined structures, assuming active roles in the art making rather than passive consumers. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective, Visual Arts elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 142 Writing with AI: Philosophy and Practice (2 Credits)*Typically offered Spring*

In this class, we will use AI as a writing and editing tool and study the history and philosophy of augmented and automated writing. Through a combination of lectures and hands-on workshops, we will explore the theoretical aspects of AI and writing with case studies and examples, as well as experiment with different AI tools and techniques. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 150 Storytelling in Mixed Reality (4 Credits)

Students will explore and build experiences that communicate stories through a combination of art and accessible augmented reality technologies. Topics include the history of storytelling through mediums and modes and technologies of expression, development and design for mixed reality devices, reality reconstruction techniques, applications of computer vision, volumetric video production, motion capture and spatial audio. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 151 Learning with Turtles (4 Credits)*Typically offered occasionally*

Learning with Turtles explores programming languages, systems, and activities designed to help learners in computational environments. Starting from a constructionist principle that systems designed for beginners must be able to embody the most powerful ideas in computing, we master some of those systems, explore how those have been designed, and engage in contemporary debates. The environments we learn with include Turtle Geometry, Craft Computing with Textiles, Modelling, and other interactive projects using programming and modelling systems such as Snap!, TurtleArt, Turtlestitch and NetLogo. Individual and group projects involve students in advancing their computational knowledge and skills and provide opportunities to design for others, to teach, to study learning and expertise, and present projects in community and public forums. The course is fundamentally about ideas, and how some powerful ideas from computation can empower a learner to be a better creator and problem solver. Writing, presentations, and discussions will emphasize reflection on our own learning within the course. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 152T Woodworking for Art and Design (4 Credits)*Typically offered occasionally*

Learn woodworking as a form of expression. Wood can be used to create both practical and artistic projects, from sculpture to furniture to musical instruments. Students will use the IMA woodshop to learn hand tools and machine tools and woodworking techniques. They will learn to safely operate woodshop tools. They will learn about wood: its structure, its properties, its use as a material and as a medium. We will learn about tone woods, sound, and music. Projects will include the design and fabrication of practical and artistic woodworking artifacts, and will include a major project in an area that is selected by the student. Woodworking sits at the intersection of design, engineering, and performance of a specific set of motion practices. During the course, we will reflect on the woodworking process, and relate it to other practices such as software design and construction. Prereq: None Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 166 The Media World of Animation: History and Theory (4 Credits)*Typically offered Fall of odd numbered years*

This course adopts both theoretical and historical perspectives through which we collectively look at how the art and technology of animation change the way we experience space-time, motion, and life. The course focuses mainly on the animation products and industries in the U.S and Japan, but students will also be exposed to various works from Europe and China. It is the aim of the course to provide students conceptual tools to explore the prismatic existence of animation and its historical, aesthetic, technological, and philosophical dimensions. Prerequisite: None. Fulfillment: IMA major elective; IMB Major IMA/IMB Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 185 Interactive Fashion (4 Credits)*Typically offered Fall*

In this course, students will research and work with soft electronics and robotics. They will integrate them into textiles to make it possible to add controlled behavior and interactivity with their immediate environment. They will study nature and design wearables, understanding them like a second skin and a soft interface that is able to gather information and transform itself. Students will also explore the complex geometries and designs allowed by digital design and manufacturing. This course will engage with both theory and practice, and introduce students to a specific design sensibility and methodology to design wearables reflecting on religious, social, and political issues. Prerequisite: INTM-SHU 101 Interaction Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 187T E-textiles (2 Credits)*Typically offered every year*

Electronic Textiles spans the worlds of craft, electronics, and computing. We will build skills in the often surprising world of using soft, stretchy or low tech materials where one might have expected hard, dimensionally stable, or high tech materials and vice versa. Weekly projects will have requirements for craftsmanship and design, and will build skills in integrating electronics and computing with soft items and wearables, making sensors and displays, tailoring and costuming, and creating your own materials. You will gain familiarity with materials and with hand and machine crafting skills. Weekly readings for discussion will be required, and presentations and guest speakers will offer you ideas and critical challenges. Pre-req: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 194 Global Media Cultures (4 Credits)*Typically offered every year*

Since the 1990s, theories of globalization have emphasized two main processes. One is the continuous time-space compression that is now felt in every aspect of human life; the other is the rapid movement and circulation of media, commodities, humans and capital. These previous works raise key questions for media studies: What are the roles of media in various global formations? Where and how do we encounter globalization/global media? This course will examine these questions with the following focuses: The entangled relation with the national, the regional and the local in the mediated imagination of the global; The ways media industries adapt to challenges of the global conditions; how global media practices enact and create different social desires (of mobility) and senses of belonging. Students will create both critical writing and video essays related to their observations of global media. Prerequisite: sophomore standing Fulfillment: IMA elective; IMB major IMA/IMB elective; Humanities Advanced Course/ Humanities Advanced Interdisciplinary Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 195 After Us: Post-human Media (4 Credits)*Typically offered Spring*

What is the place of human creativity, agency and intelligence in complex technical networks? This class aims to build a foundation for studying how automation, artificial intelligence, robotics, digital image production, predictive software, and eco-technologies signal the ascent of a posthuman society. It provides a selection of texts and case studies that introduce basic philosophical and sociological questions about posthuman technologies and support creators, writers and thinkers in conceptualizing the posthuman nature of new media. The class is a combination of lectures and writing workshops. Prerequisite: None. Fulfillment: CORE STS; IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

INTM-SHU 200 Topics in IMA: (4 Credits)*Typically offered Fall and Spring*

Topics in Interactive Media Arts courses are courses within the broader field of emerging media, covering a wide range of topics depending on the expertise of the current course instructor. This course will cover a specific emerging media topic from a practical and/or theoretical perspective.

Students will learn about the topic from readings, discussions, and writings, as well as through hands-on assignments and projects.

Students can enroll in multiple "Topics in IMA" courses simultaneously in one semester and receive full credits for each course. Prerequisite: None.

Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 201 Expanded Web (4 Credits)*Typically offered Spring*

This course draws from net art, physical computing, and post-digital / post-internet practices to explore interactions that bridge screen and the physical. Students are led to conceptualize and develop custom interfaces (in the widest sense), in which either aspects of the web "seep out" into the physical world, or – conversely – websites are being engaged with in novel ways that acknowledge the user's physical and bodily existence. A reflection of the medium web, its vernacular, and practical daily use is the starting point of this project. The students' work is additionally being informed by analysis of select examples from art and design, exemplary for ways of re-framing the technical everyday. This course will make use of web technologies (p5.js, Node.js), and physical computing techniques – and introduce students to various ways those can be technically, and conceptually, combined. Students must have previous creative coding experience (ideally using p5.js). Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 202 Media Architecture (4 Credits)

Architecture has always been considered as an immediate extension of the human civilization, and its connection with state-of-the-art technologies has always been essential. In our current highly mediated and augmented environments, architecture shifts from static, solid, and predefined, to a fluid, interactive, and ever-changing. Computational, interactive, and media technologies challenge our understanding of what architecture is, redefining our engagement with exterior and interior spaces. The course investigates the area of media architecture from a contextual and critical perspective, examining and implementing in theoretical and practical scenarios current emerging trends. Students are expected to develop a comprehensive understanding of media architecture, to thoroughly investigate its media-scape (including motivations, social implications, technological requirements), and to develop installation work that utilizes contemporary media development practices and demonstrates artistic, technological, and scientific rigor. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 203T Intro to Movement Practices (2 Credits)*Typically offered every year*

In this course we combine both analytic and embodied learning about human movement practices. We will learn selected computational and physical movement sensing techniques (webcam-based, wearable-based, and commercial motion capture technologies). We will combine guest and student-led presentations and activities that involve us in movement while learning structures and history of selected movement practices such as dance and circus arts. We will do four sprint projects of approximately one week in length (each semester projects differ, but may include examples such as PoseNet/MoveNet, Creating a Fitness Tracker, Rhythm Game, Non-humanoid MoCap avatars), alternating with work on a class choreographic project and individual research and writing of a paper on a movement practice. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 204 Critical Data and Visualization (4 Credits)

Data is at the heart of the increasing role technology has in our lives. Data collection and algorithmic processing are not only central to recent technical breakthroughs such as in AI and automation but have created new economic paradigms where data equals value and shape political approaches to power and control. Decisions based on algorithms affect society at large whether it's changing the way we transport and distribute goods, or influencing the things we buy, the news we read or even the people we date. The world that algorithms see is data. For the average person, however, data is seldom more than an abstract idea. So what exactly is data? How is value extracted from it? And why should we care? How can we ethically balance the positive uses of data-driven systems with the threats they pose to discriminate and infringe basic human rights? This class seeks to untangle some of these issues practically and theoretically. Prerequisite: Creative Coding Lab. Fulfillment: CORE AT; IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 205 What is New Media? (4 Credits)

Typically offered Fall and Spring

This course will explore the fundamentals of new media scholarship. Together, we will review and engage with different theories of emerging media in its social, cultural, political, and historical contexts. Students will be able to research, think and write critically about some of the central debates in media studies, including new media forms and aesthetics, issues of gender, race, and labor, platforms, infrastructure and various emerging paradigms. Classes consist of theoretical readings, media example discussion, and writing workshops. Prerequisite: WAI (or co-requisite). Fulfillment: IMA Major Foundations; IMB Major Emerging Media Foundation.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Foundations
- SB Crse Attr: NYU Shanghai: IMB Emerging Media Foundation Course

INTM-SHU 205T The Artificial: Programming and Planetaryity (4 Credits)

This seminar will introduce students to contemporary theories of digital culture. It presents computational media less as a unique kind of device than as pervasive global infrastructure, and considers "programming" not only as software but also as designating how complex systems interact. For example, the Stack model argues that we can understand planetary-scale computation as comprised by modular layers (Earth, Cloud, City, Address, Interface, User) together forming a coherent whole: an accidental megastructure. We will consider the challenge to computational Art and Design through the lens of "the artificial," defined as all the ways that the world might be deliberately composed, including ourselves. Like an astronaut on a space walk, we are in always entangled with tethering prosthetics that make human life possible. The seminar will trace the interwoven history of "artificial intelligence" as both a philosophical thought experiment and as a foundational technology, and will explore alternatives to anthropomorphic models of AI. We will consider existing and potential forms of human-AI interaction design, such as voice and search. We will consider the history and contemporary state of artificial sensing media, such as machine vision. The seminar will also map how modern urban systems may be evolve in relation to pervasive automation and distributed computational interaction. Finally we will consider what the emergence of planetary-scale computation reveals about the limits of the human condition in the Anthropocene. We will consider how it may simultaneously threaten the material ecological substrate on which it (and we) depend and also make possible a necessary composability of our shared planetary perch. This unique course is designed for students with an interest in combining advanced theoretical understanding of contemporary digital culture with applied and speculative design research. It will combine in-person lectures and discussions, online sessions and field research. It will meet for extended seminar and field sessions during the first three weeks of the term (3 Thursday seminar and weekend field research sessions) followed by online sessions and further in-person meetings. Course requirements include assigned readings and discussion, written mid-term exam and final project/ paper based on topics agreed upon in consultation with Professor. Prerequisite: Writing as Inquiry Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 206T Topic: Media Past and Future (4 Credits)

An attempt to better understand and participate in the communications revolution we are undergoing through an investigation of the nature and consequences of previous communications revolutions. Using readings ranging from Plato to Sontag to Kundera, the course will look closely at the history of spoken language, images, writing, printing, photography, film, radio and television. How were they understood? How were they initially used or misused? What were their effects upon social patterns, politics and thought? How did innovations occur? What can that tell us about the potential and potential influence of digital communication? Students will be asked to undertake innovative experiments of their own in forms of new media. Fulfillment: IMA elective; IMB IMA/IMB elective. Prerequisites: None

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 207T Topic: AI and Culture: Paths of Definition, Paths of Development (2 Credits)

As no two cultures define "artificial" the same way, and no two define "intelligence" the same way, so too they will not define and imagine "artificial intelligence" in the same way. As China and the West engage in what is sometimes called a new scientific and technological race, the fundamental terms of a shared conversation across cultures may be missing or contested. As planetary-scale economies shift toward increasing automation, AI moves out of the laboratory and into the fabric of supply-chains, urban infrastructures, and everyday life. This research seminar will allow students to explore different ways that different cultural connotations of "face", "city", and "governance", for example, imply different paths for the development of this fundamental technology. NYU Shanghai will host an international conference in the Spring 2020 that examine these same topics. Prerequisites: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 208D Realtime Audiovisual Performance Systems (4 Credits)

Typically offered Fall of even numbered years

Realtime Audiovisual Performance Systems Prerequisite: None.

Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 214 User Experience Design (4 Credits)

Typically offered Spring

User experience design (UXD, UED, or XD) is the process of enhancing user satisfaction with a product by improving its usability, accessibility, and desirability provided throughout the user's interaction with a product. The class is designed for those who are passionate about creating user-centered experiences with interactive media. Students are encouraged to empathize with users, engaging them to make informed design choices from prototype right through to project completion. Prerequisites: None Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 215 Machine Learning for New Interfaces (4 Credits)

Machine Learning for New Interfaces is an introductory course with the goal of teaching machine learning concepts in an approachable way to students with basic coding experience and no prior knowledge of machine learning. Students will explore experimental and diverse methods in Machine Learning such as image classification, pose estimation, k-nearest neighbor algorithm and transfer learning. By the end of the course, students will be able to create their own interfaces or applications for the web. They will be able to apply fundamental concepts of Machine Learning, recognize existing Machine Learning models and make Machine Learning projects applicable to everyday life. Prerequisite: INTM-SHU 103 Creative Coding Lab or CSCI-SHU 11 Introduction to Computer Programming Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 217 Make Believe (4 Credits)*Typically offered occasionally*

We live in an era of information where the information can be written, accessed, shared, and also eliminated with a single stroke. As a result, the objective “truth” is brought to a question. In the last decade, artists have been experimenting with the fakeness of the truth and the truthfulness of the fake by creating fake documents, staged marriages, an arguably authentic artifact, imaginary advertisements both historical and contemporary. What does it mean to tell the truth in the context of art? How does art cross the boundaries between the real and the fake, truthfulness and misrepresentation? This course will examine social engagement of art and how “truth” is treated, interpreted, and presented. The class will take a field trip to a propaganda museum, have readings and discussions, and analyze artists working with fiction as a medium in art making. Students will work on projects to construct believable reality through object making (3D fabrication) and narrative construction (audiovisual material). Prerequisite: Interaction Lab or Communications Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 218 Design and Fabrication of Everyday Things (4 Credits)*Typically offered occasionally*

This course explores the fundamental processes involved in the design and fabrication of everyday objects. Students are introduced to creative techniques to develop insight into human behavior and explore the idea of human needs. In parallel, they will learn how to make prototypes that begin with rapid paper prototyping techniques and later develops into tangible 3D models of objects using 3D modelling, 3D printing and laser cutting techniques. We will be using Rhino(3D) as our primary CAD software for 3D modelling, Adobe Illustrator to generate laser cutting files and Cura as our primary software to 3D print objects. This class will be partially lecture based and partially studio lead. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 222 Introduction to Robotics (4 Credits)*Typically offered occasionally*

Since the beginning of civilization people have fantasized about intelligent machines sensing and acting autonomously. In this course we will discover what robots are, learn how to design them, and use simple tools to build them. Students will use open source hardware to explore sensors and electronics, as well as design and build robot bodies and actuators through a variety of digital fabrication technologies. Using a set of community developed tools, students will become familiar with concepts such as mechatronics, inverse kinematics, domotics and machine learning. No previous programming or electronics experience is necessary, however students will be guided through a series of design challenges that their robots should be able to accomplish. With an emphasis on experimentation, peer learning, and teamwork, the objective of this course is to share in the excitement of robotics by enabling students to make their own creations. By the end of the course, students will present a short research paper and documentation about their robotic explorations. Co-requisite or Prerequisite: Interaction Lab or Creative Coding Lab. Fulfillment: CORE ED; IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 223 Programming Design Systems (4 Credits)*Typically offered occasionally*

Programming Design Systems is a course focused on the intersection between graphic design and code. Class time is divided between design topics like form, color, grid systems, and typography, and more computational topics like randomization, repetition, transformation and generative form. The students work to write software that abstract design theories into the code, and show the work in class for design critique. Weekly readings include relevant writings from the history of graphic design, articles from the history of computation, and everything in between. The class aims not only to teach the students how to create designs via code, but also to have something interesting to say about it. The course is based on the Programming Design Systems book, and more background info can be found in the book's introduction. Prerequisite: INTM-SHU 103 Creative Coding Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 224 Unconventional Design+Interactions (4 Credits)

This class explores alternative frameworks of thinking to inform the design and making of objects, systems and experiences. The class is meant to provoke conversation around the idea of design and be critical and mindful of its impact. We explore alternative philosophies or frameworks of design which might go beyond making something functional, intuitive or aesthetically pleasing. We unpack the idea of intention behind design and encourage the act of design to be a creative, expressive and reflective process. This class is a studio led class where students will be asked to apply these frameworks in their own work as a response to design problems as well as further develop their own framework or methodology for design. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 226 Artificial Intelligence Arts (4 Credits)

Artificial Intelligence Arts is an intermediate class that broadly explores issues in the applications of AI to arts and creativity. This class looks at generative Machine Learning algorithms for creation of new media, arts and design. In addition to covering the technical advances, the class also addresses the ethical concerns ranging from the use of data set, the necessity of AI generative capacity to our proper attitudes towards AI aesthetics and creativity. Students will apply a practical and conceptual understanding of AI both as technology and artistic medium to their creative practices. Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Prerequisites: Interaction Lab or Communication Lab or Creative Coding Lab.

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 227 ABC Browser Circus (4 Credits)

Typically offered Spring term of even numbered years

Welcome to the ABC Browser Circus (ABC), where acrobats juggle with hyperlinks, dance across scrolling grids, and jump through open server ports. This course introduces the students to the history of the internet, the World Wide Web, and specifically to the browser as a cultural object and its role in (net)art; in parallel, it teaches web development and guides the students to create three web-based projects. Theory and practice-based components are each conducted during one of two 75 minute classes per week. Prerequisite: Creative Coding Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 228 Digital + Sculpture (4 Credits)

Typically offered occasionally

This course investigates and illuminates the concepts and the aesthetic of kinetic sculpture and installation art in various forms from creative and historical perspectives. Students will explore performative sculptures and learn to work with space. This is a studio-oriented class with a strong physical basis in physical computing, woodworking, and readymades. Students will build upon their existing physical computing skills to create moving sculptures and installations. The course will examine kinetic sculpture through slides, artist lectures, videos, readings, a field trip and other materials. Prerequisite: Interaction Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 234 Rapid Prototyping (4 Credits)

Typically offered occasionally

Have you ever wanted to build a physical product but didn't know where to start? Have you ever wondered how the objects you use everyday came to exist in the forms that they are? In a world that is becoming increasingly digital humans will also need physical interfaces to interact with these experiences. Rapid prototyping is one of the core tenets for the development of meaningful experiences and usable elements in physical products both for digital experiences and real world experiences. This course will introduce students to hands on development of physical prototyping for product development or for use in creating elements of physical art installation. We will through practical application explore how we might interact with rudimentary materials and how we will use them to address a series of fun challenges through rapid prototyping. Students will gain experience of how to translate these prototypes into CAD models for further refinement. These challenges will provide skills acquisition opportunities and culminate in a final challenge where students will use their learnings to create a physical prototype that solves a real world problem. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 235 Topics in Art & Design - 2pt (2 Credits)

Typically offered Fall

Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 238 Toy Design and Prototyping (4 Credits)

Toys are not only for kids. Toys are part of our culture and an important medium to develop essential skills like creativity, problem-solving, and socialization. They can also be a great contribution in education, medicine, and business, and can improve the quality of life for children and adults alike. The emphasis in this class is on designing for play and entertainment. Students will be introduced to the underlying essential concepts in designing toys and they will create their own utilizing hand-making craft skills and new technologies. This course will equip the students with a basic knowledge about various design topics including: brainstorming, sketching, graphic design, concept development, basic mechanisms, 3D modeling, rendering, and rapid prototyping. This is a hands-on class and students are required to bring their imagination in addition to a willingness to experiment and explore creative solutions for class assignments. Website: <https://wp.nyu.edu/shanghai-toydesignandprototyping/> Prerequisites: Interaction lab / Communication lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 239 Digital Fabrication (2 Credits)

Typically offered occasionally

Digital Fabrication is the process of using design or modeling software to generate digital files which can then be physically produced through a variety of methods, including laser cutting, 3D printing and computer numeric control (CNC). The ability to fabricate directly from our computers or design files used to be an exotic and expensive option not widely available, but recent changes within this field have brought these capabilities to within our reach. In this class students will learn how to design and model for and to operate fabrication machines. Emphasis will be put on designing functional parts that can fit into a larger project or support other components as well as being successful on a conceptual and aesthetic level. In this class students will discover methods to design and model using computer aided design (CAD) software. We will then utilize computer aided manufacturing (CAM) software to generate instructions that various machines can follow to fabricate our designs. We will also look at methods for 3D scanning, data manipulation and conversion, mold making, as well as printed circuit board (PCB) fabrication. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 241 VFX in the Age of Virtual Production (4 Credits)

Typically offered every year

In the contemporary era of virtual production, time-based media faces new opportunities and challenges in terms of pipelines, workflows, and distribution. Decentralizing, hybridizing, and outsourcing among film studios, production houses, broadcast design, interactive and gaming industry become the major discourses of the academia and the industry. The course focuses on the history/context, present practice, and the emerging trends of the VSFX studies and applications. Through the collaborative research among academia and industry, the course investigates the theory and practice of VSFX studies, and further exams the feasibility of emerging technologies through the entrepreneurship spirit. Prerequisite: Interaction Lab / Creative Coding Lab / Communications Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 242 Exhibition: Next (4 Credits)

Typically offered Fall

Exhibition: Next is an exploration and observation of the fields of exhibition design and museum study. This class will explore how emerging and interactive technologies can be applied to a museum to enhance visitors' experiences. The class discusses exhibition design, museum technologies, curatorial practices, art history, and studio art approaches. What is the definition of a museum today and how should it be experienced? What is the role of a museum in contemporary society? What is the social value of a museum nowadays? How does it engage with the audiences of tomorrow? Students will explore various museums, spanning from visiting local museums to browsing online museums. Taking specific questions upon each visit, students will write a trip report to reflect their observation in the museum from a unique and critical perspective. The research component is embedded throughout the semester, so students will propose a research topic at the beginning of the course. Then, they will start collecting materials, building objects, designing experiences, and writing a manifesto for their research project for the final exhibition. If possible, all assignments that serve the research topic can be curated in the final exhibition. After the midterm, the instructor will initiate a collaboration with a local organization to assign students a design challenge working in groups. By the end of the semester, the class will present a group show for students' final project in a gallery space. Prerequisite: Interaction Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 243 Introduction to Animation (4 Credits)

Tangible heritage (site, object, and structure) and intangible heritage (motif, icon, character, textile, wardrobe, music, performance, language and ritual) are unseparated parts of the cultural heritage. The narrative and messaging of cultural heritage can be preserved by moving sequences, motion design and animation. The richness of heritage contents can be further disseminated and known by the dynamic media. This course aims to utilize animation and motion media to depict and preserve the richness of cultural heritage contents. 3D animation and motion graphics techniques will be addressed and applied to the storytelling. Students will be guided to research the Asian cultural heritage contents including the tangible and intangible heritage. They will further explore the visual design and production pipeline of animation. Visiting expert of interactive media design and intangible heritage performance will get involved to share the insights to the students.

Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 244 Bio-Inspired Robot Systems (4 Credits)

Typically offered every year

"How do complex systems work? Can nature help us understand them? In order to explore answers to these questions, we will run a series of experiments that will serve as an introduction to swarm robotics, machine learning, and bionics. The purpose of this course is to see biological phenomena under the lens of new technology. This course has a hands-on approach with focus on building and testing applications. We will create algorithms and mobile robots that replicate responses observed in living organisms, utilizing radio signals and computer vision to model emergent behaviors from groups. The research, process, and results will be documented in a short scientific article." Prereq: None. Fulfillment: CORE ED; IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 247 Creative Game Design and Development (4 Credits)

We have all played and enjoyed games, but how do people actually design and develop them? How to describe a game from a professional standpoint? What are the basic elements and structure in video game development? How do game designers create an interactive experience for the player? What about prototyping and iterating in development? This course explores these questions and others through playing, analyzing and making games over 14 weeks. Students will understand game not only as an entertaining production and business model but a form of interactive media impacting current life and future. Students will be introduced to game design concepts, emphasizing the development: paper and digital prototyping, develop iteration, interactive narratives design and embedment, object-oriented programming, 2D/3D game art design, sound effects composition and user testing. For the course project, students will work in teams and create games in multiple projects, from board game focusing on gameplay prototype to digital playable experience with creative game art designs. This course leverages Unity, a game engine that uses C# based programming language. Basic knowledge of any programming language will come in handy. Prerequisite: Creative Coding Lab or Interaction Lab or Introduction to Computer Programming. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 253 Creating Assistive Technology (4 Credits)

Typically offered occasionally

This interdisciplinary project-based class focuses on the design, development, and use of technology that increases the quality of life of individuals of disabilities. Students will be introduced to various assistive technology and strategies, including no-tech and low-tech as well as software and online-based practices. This class features lectures, discussions, guest lectures, field trips, and project presentations by students. Software programming, physical computing, machine learning, and 3D fabrication will be introduced for developing an assistive device. Field trips of local facilities will be scheduled during the semester. They provide an off-campus real-world learning experience as well as an opportunity for students to interact with users of assistive technology in the local community. Students will participate in a team-based design project that identifies challenges for an individual of disabilities and create an innovative and useful assistive device to meet their needs. Prerequisite: Interaction Lab Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 254 Nature of Code (4 Credits)*Typically offered Spring*

The Nature of Code is an intermediate course based on Daniel Shiffman's The Nature of Code course at NYU ITP and was adjusted for undergraduate students. This course explores the fundamentals of programming, such as Object-Oriented Programming, and the application of simple principles of mathematics and physics in order to recreate natural behaviors in a digital environment. Prerequisite: INTM-SHU 101 Interaction Lab or INTM-SHU 103 Creative Coding Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 255 Topics in Business of Emerging Media (2 Credits)*Typically offered Fall*

Prerequisite: INTM-SHU 101 Interaction Lab or INTM-SHU 110 Application Lab or INTM-SHU 120 Communications Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 257 Immersive Arts (4 Credits)*Typically offered Spring*

This course aims to provide students with the means to understand immersive media experiences, and conduct experiments from both a practical and a theoretical perspective. The course consists of lectures, research, discussion and studio-based practice. Students will learn to produce stereoscopic - 3D images and photogrammetric 3D models, utilize multi-channel video and sound systems, and be introduced to the Unity game engine and VR hardware. For the final project, students produce VR environments in experimental and meaningful ways.

Prerequisite: INTM-SHU 120 Communications Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 258 Machine Learning for Artists and Designers (4 Credits)*Typically offered every year*

An introductory course to machine learning aimed at students without a mathematics background who are interested in developing an intuitive, and critical understanding of related techniques and their effects. The course uses the JavaScript language, and the ml5.js and p5.js frameworks to introduce the theory and application of machine learning algorithms. In exercises and assignments, students will experiment with building, using and critiquing machine learning models and datasets. Readings and discussions will cover relevant issues and frame the practice. This course builds on an existing practice of computer programming, and is expected to inform the students' future art or design practice. Weekly assignments are required. Prerequisite: INTM-SHU 103 Creative Coding Lab OR CSCI-SHU 11 Intro to Computer Programming Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 259 Immersive Design for Video Games (2 Credits)*Typically offered every year*

The current design methods and technologies in the field of digital entertainment, from design concepts to design tools, are still based on 2D screens, but the product is often 3D. This contradiction results in the designers not being able to see the final consequences of their work directly. Can existing VR technologies solve this contradiction? Immersive design is a new design method for digital creativities beyond the screen. It usually takes VR, AR, or MR devices as design interfaces to craft 3D models, textures, game environments, and other gaming experiences. Not only game assets creation but also game design concepts can be changed with these new technical inputs. In this course, students will answer the following questions: # Is immersive design more intuitive? # Is immersive design more efficient? # Do immersive design techniques have lower learning costs? # What traditional design lessons and concepts can be applied in an immersive design environment? In view of these questions, students from different disciplines will give answers through discussions, projects, collaboration, documentation, and VR games. Prerequisite: Communications Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 261 Data: Code it, Make it (4 Credits)*Typically offered Spring*

Data Physicalization is an emerging research area. It explores new techniques to design and encode data into physical artifacts through geometry or material properties. Recent advances in Computational Design and Fabrication offer novel opportunities to complement traditional screen-based visualizations enhancing people's ability to discover, understand, and communicate data. This course uses a data visualization approach to define new methods of computational design and digital fabrication. Students will create unique, data-driven, everyday objects and sculpt meaning into them. Through the use of platforms such as Rhinoceros: a 3D modeling software, and Grasshopper: a visual programming language, students will be introduced to fundamental computational methods for designing and fabricating, as well as the understanding of digital fabrication strategies for parametrically generated design. Website: <https://wp.nyu.edu/shanghai-ima-datacodeitmakeit/> Prerequisite: Interaction Lab or Creative Coding Lab. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 262 Urban Farming: Technology and Community (4 Credits)*Typically offered every year*

Urban Farming: Technology and Community is a class that explores the growing role of urban agriculture in big cities. According to the UN, 68% of the world population is projected to live in urban areas by 2050. With this projection in mind, this class aims at exploring alternative uses of urban land as possible solutions to food insecurity, ecological and social concerns. In this course we will focus on digital agricultural innovations, sustainable food ecosystems and the development of an urban farm community. Prerequisite: INTM-SHU 101 Interaction Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 265 Topics in Digital Humanities: (4 Credits)*Typically offered occasionally*

Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 266 Digital Heritage (4 Credits)

This course investigates and explores the integration between cultural heritage and virtual conservation, specifically towards the objects, deities, sites, and gardens in China. Through the global perspective, the course raises awareness of heritage conservation and critical heritage studies towards the origins and transformations global-wide in the contemporary era. Academic readings and oral presentations revolving around this theme will enhance students' skills for documentation and restoration through innovative digital techniques. Conservator presentations, field trips, gallery visits, and art projects enable students to communicate with practitioners in the field and examine the values of cultural heritage through a global perspective. Prerequisites: None Fulfillment: IMA elective; IMB major IMA/IMB elective; GCS Chinese Media, Arts, and Literature.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 267 The Cultivated City (4 Credits)

This class examines the idea and practices of 'cultivation' in relation to the challenging environment of the 21st century city. Through field trips, readings and discussions, the class explores the concept of cultivation, and how it can be used as a basis for researching the urban ecology of Shanghai, both as a past and future city. The class incorporates a major project in the digital humanities, in which students use the tools of interactive media (audio, video and cartographic technologies) to research, map and narrativize the ways in which architects, designers, artists and thinkers engage with the traditions of cultivation in order to imagine and recreate the future metropolis. Cultivated City focuses on Chinese cultural history and its changing attitudes to nature and the environment. This term it does so within the context of planting an urban garden at NYU Shanghai's new campus in Qiantian. Students will work on group projects designed to help build community and participate in the creation of an inspiring outdoor landscape for our future home. Fulfillment: CORE HPC or IPC; GCS Chinese History, Society, and Culture; IMA elective; IMB IMA/IMB elective; 18-19 Humanities Digital Approaches. Prerequisite: Writing as Inquiry

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

INTM-SHU 268 Acoustic Ethnography of the Yangtze Delta (4 Credits)

We live in a world immersed in sound yet we rarely attend to how sound can reflect our social structure or reveal cultural meaning. This course introduces students to acoustic ethnography, soundscape studies and narrative, non-narrative audio storytelling. We will gather and analyze the acoustic environment of China, using recorded sounds to create ethnography through text and sound. Ethnography (literally, "culture-writing") is both the act of gathering data about culture through observation and interviews as well as the practice of writing analytically about cultural difference. Visual ethnography incorporates the analysis of visual and material aspects of our social environment into creative, multimedia rich projects. With an ethnographic approach to sound, we will document the rich tapestry of sounds around us in the context of the Yangtze River Delta region and think about how this conveys China's culture, society and history. Through lectures, discussion, readings, listening assignments, field studies and projects, we will re-learn how to listen, observe and record the sounds in our environment. We will study Chinese sound art and Chinese cultural productions in music, film, television and multimedia installation. We will contextualize Chinese sound art against major theoretical approaches to sound including archives and preservation, form versus content, and social studies of science. Students will work collaboratively or individually on a final project that combines sound recording and production, to create an ethnographic analysis of an aspect of social and cultural life in the Yangtze River Delta region. Students will gain experience in gathering ethnographic data and they will transform it into an analytical or creative project integrating sound art and text. Prior knowledge of sound editing and Chinese language is not required. Prerequisite: None Fulfillment: GCS Chinese Media, Arts, and Literature; IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 271 Remade in China (4 Credits)

Typically offered Fall

Re-make: make (something) again or differently. In this class students will investigate why China became the world's largest importer of waste. They will study local communities in China, how they manage their waste, and explore innovative ways to transform discarded materials or products around us into something new and precious in areas such as art, graphic and industrial design, architecture, fashion, textiles, etc.. Through research and development, students will learn how traditional techniques and new technologies among the sustainable design philosophy can be utilized as powerful tools for addressing social and environmental problems. Website: <https://wp.nyu.edu/remadeinchina/> Prerequisite: None. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 280C VR / AR Fundamentals (4 Credits)

Typically offered Fall and Spring

Virtual Reality and Augmented Reality represent, respectively, visions of "being" somewhere else or augmenting your present environment. These visions are not new, but new technologies have made it possible to produce experiences unlike anything before, particularly through the use of headsets, spatial audio, touch sensors, and custom location-based installations. These new technologies are becoming small, powerful, and inexpensive, and as a result we are witnessing the birth of a powerful new medium, new art form, and new industry - all very quickly. The speed of VR and AR growth has created both opportunity and confusion. "VR / AR Fundamentals" takes a long, deep perspective. We will overview such basic elements as audiovisual resolution and fidelity; spatiality and immersion; other senses such as touch, smell, taste (and even mind); input and interactivity; and live and social. We'll look at distinctions such as cinema versus games, movies versus models, public versus personal, real world versus fantasy worlds, linear versus interactive, and narrative versus ambient. These elements and distinctions will be presented partially as technical but in an understandable way for general liberal arts students, and will rely heavily on experiencing content and keeping up with current events. That's the first half-semester. The second half-semester we'll concentrate on collectively producing a series of timely and relevant projects, all short, entertaining, and useful to others exploring the world of VR / AR. Prerequisites: None Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 280D Realtime Audiovisual Performance Systems (4 Credits)

Typically offered occasionally

From the history of visual music and abstract film to the contemporary notion of live cinema, this course will be an exploration of the synesthetic relationship between sound and visuals in a real-time performance setting. Dating back as far as the 18th century, systems have been invented to produce images alongside music linking the two through formalized arrangements. Current media technologies make developing such systems both more approachable and more expansive in their scope. Through readings, viewings, and case studies students will gain an understanding of the history and theory of live audiovisuals. During the course students will team up to develop and master a real-time audiovisual system of their own invention. The class will culminate in a show in which they will present their work through a live performance. Prerequisite: Interaction Lab, Communications Lab or Creative Coding Lab Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 283 Locative Media (4 Credits)*Typically offered occasionally*

With the rise of mobile computing platforms such as smart phones and tablets, location has suddenly become a key element in the production and consumption of media. In this online course, designed for NYU Shanghai Interactive Media Arts majors studying abroad, students will be encouraged to simultaneously explore their unique study away site, as well as to consume, research, critique, and create location-based media for mobile devices. Students will be introduced to GPS (Global Positioning System) technologies through activities such as geocaching and GPS drawing. We will next investigate geocoding, geotagging, and geofencing through the application of JavaScript mapping platforms CartoDB and Google Maps. Students will then explore an emerging technology known as Bluetooth Beacons, which can be used to create custom positioning systems and to facilitate location awareness in mobile devices. Students will be asked to then produce, as a final project, a game that engages participants in a location or locations, as well as in locative media in any number of forms. Prerequisite: Registration is limited to IMA/IMB Majors studying at NYU's global sites other than New York or Abu Dhabi. Please email ima@nyu.edu for the permission of department consent. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 284 Digital Sculpting for Facial Animation (4 Credits)*Typically offered occasionally*

This course emphasizes on the 3D animation through digital modeling / sculpting techniques, keyframe and blend-shape animation. The course breaks down into 4 stages: 1. basic topology of head model, 2. high-poly sculpting and projection texturing, 3. Keyframe and blend-shapes animation, 4. 3D animation final project. In the final project, students get to choose either lip-sync animation or conceptual piece utilizing the created head models. An overview of digital editing / compositing and sound design will also be introduced to assist with students' final project at the end of the semester. Prerequisite: None. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 286 Theories and Practices of Transmedia Storytelling (4 Credits)*Typically offered every year*

This course examines both the practices and the products of adapting narratives from one medium to another. Through case studies of specific adaptations, we will address some of the major formal, industrial, and interpretative questions that transmedia adaptation raises, as creators change characters, stories, settings, and narrative tropes to fit into new stories various, often multiple media: comics, radio, novels, movies, television, games (tabletop and electronic), and more. Theoretical readings will give students concepts and a vocabulary to discuss ways that narrative adaptations use and re-purpose their "source" texts. Students will write prompted response papers, an analytical essay, and an annotated bibliography; in collaboration with classmates, student teams will first propose and then develop transmedia narratives of their own. Prerequisite: Writing as Inquiry Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 287 NIME: New Interfaces for Musical Expression (4 Credits)*Typically offered Spring*

This course focusses on designing, creating, and performing with self-built electro-acoustic music systems to explore the limits of human musical expression. By listening and reading, students will research examples of contemporary work by creators of musical interfaces and discuss issues facing technology in the performing arts. Through hands-on sessions, students will invent and prototype analog, digital, and hybrid musical systems encompassing musical control, mapping input to sound, and the creation of sound itself. Interaction Lab is a prerequisite; however, prior performing experience is not required. The performance discipline is inherently interdisciplinary and collaborative, so an open mind to working with others is imperative. The class will culminate in a public performance where students will play their instruments live for an audience. Prerequisite: Interaction Lab Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 289 Exploring & Creating Sonic Environments (4 Credits)*Typically offered occasionally*

Sound is all around us. The way we perceive or experience these sounds are largely dependent upon their environments, whether artificially constructed or naturally present. In this studio-based course, students will learn about the development of sound art through readings and listenings by artists, musicians and designers who investigate our sonic environment through sound sculptures, multi-channel immersive installations, soundscapes, audio tours, podcasts and field recordings. The course will begin with an introduction into the physics of sound with time for deep listening exercises. We will read selected texts and listen to pieces by those working in the field of Acoustic Ecology, an interdisciplinary field that employs ethnographic practices to create sound studies or art. We will look at artists who employ narrative techniques to engage the audience. We will study musicians such as Alvin Lucier and John Cage and the history of experimental music that takes into consideration the physical space its recorded or played in. There will be weekly exercises that will help develop the student's spatial awareness of sound and music. We will take listening and recording trips into the field to understand the acoustic urban environment. We will use different types of microphones such as hydrophones and binaural mics. Students will learn how to build their own contact microphones. Students will have the opportunity to create works for multi-channel speakers. The final project can take on any form within the realm of sound art—multimedia, narrative, non-narrative, music, installation. Prerequisite: Communications Lab or Interaction Lab. Fulfillment: IMA elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 294 History of Human Computer Interaction (4 Credits)*Typically offered Fall and Spring*

The development of Human Computer Interaction, and its identification as a field, required scientists, engineers, designers, and artists as well as contributions from several other disciplines. In this course, we will learn how humans could imagine and then create computers worth interacting with, and the growth of the ecology of human computer interaction. The focus of our historical lens will be seminal papers and materials from computing, cognitive science, engineering, design, history of technology, and popular culture. Prerequisite: Sophomore standing or above. Fulfillment: CORE STS; IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

INTM-SHU 296 The Planetary: Computation in the Anthropocene (4 Credits)

This course will examine the relationship between planetary-scale computation and the development of planetarity. We take as starting points that (1) the very notion of climate change is an epistemological accomplishment of planetary-scale sensing, modeling and computation systems and (2) the ecological costs of computation are on an unsustainable trajectory. The seminar will ask: what are alternative futures for computation as human and ecological infrastructure? The primary subject of research is the transition from computation as a digital media object to computation as continental scale infrastructure. The scope and significance of this shift are fundamental for the development of interactive art and design that seeks to explore critical alternatives to extant models for this. What we call planetary-scale computation takes different forms at different scales—from energy and mineral sourcing and subterranean cloud infrastructure to urban software and massive universal addressing systems; from interfaces drawn by the augmentation of the hand and eye to users identified by self—quantification and the arrival of legions of sensors, algorithms, and robots. Each of these may represent a direct harm upon effected ecosystems and/or a means for and informed viable administration of those same systems. The course is primarily geared to advanced IMA students but is open to students from any major who are interested in engaging with contemporary issues of computation, society and ecology. Final projects will combine original written work and speculative design that can draw on diverse student core skill sets. Prerequisite: Sophomore Standing. Fulfillment: IMA elective; IMB major IMA/IMB elective..

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 297T Synthetic Senses and Sensation (2 Credits)*Typically offered every year*

This 7-week course will introduce students to (1) discourses of the artificial and the synthetic in contemporary philosophy, (2) diverse artistic and design practices that explore synthetic vision, hearing, touch, and cognition, and (3) allow each student to develop either an original work of speculative art/design and/or an original written work related to synthetic sensing. Course is open to students of any major. Prerequisite: Sophomore standing. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 301 Advanced Lab: Open Project (2 Credits)*Typically offered Spring*

This course offers students the opportunity to develop a self-initiated project with close mentorship from a faculty member. Projects undertaken can span the areas of conceptual research, business development, creative practice, and media production. The course includes structured weekly workshop and critique times with peers and special guests. It is expected that students will be invested in the work of their peers by providing feedback and carefully consider the feedback they receive during critiques. In addition to weekly meeting times, students are expected to also participate in regular one-on-one meetings with faculty, peers, and guests. A formal project proposal, weekly assignments and documentation, a final project presentation, and participation in the IMA End of Semester show are all required. Although students are encouraged to continue work they may have initiated in a prior class, they may not combine or in any way double count work from this class in another class taken in the same semester. Group work is allowed assuming all group members are enrolled in this class. Students may take this course in either the first or second 7 weeks for 2 credits or repeated across 14 weeks for 4 credits. Prerequisite: Sophomore standing. Fulfillment: IMA elective or Advanced elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 303 Advanced Lab: Shaders (2 Credits)*Typically offered every other year*

Learn how to creatively harness the power of your computer's graphics card by writing your own shaders! Shaders are small programs that run on the GPU (Graphics Processing Unit) and are used for purposes most commonly related to graphic effects, video post-processing, and the generation and manipulation of 3D geometry. They are an incredibly powerful tool for creating hardware accelerated graphics and form the building blocks of the modern graphics pipeline. Writing and experimenting with vertex, fragment, and geometry shaders will be the main focus of the course. The topic will be approached platform-agnostic so that it can be applied to the different implementations in various creative software environments such as WebGL, Processing, Unity, Max, TouchDesigner, etc. This an advanced-level 2-credit course. Prerequisite: INTM-SHU 138 Responsive Environments OR INTM-SHU 204 Critical Data & Visualization OR INTM-SHU 215 Machine Learning for New Interfaces OR INTM-SHU 227 ABC Browser Circus OR INTM-SHU 247 Creative Game Design & Development OR INTM-SHU 254 Nature of Code OR INTM-SHU 258 Machine Learning for Artists & Designers OR INTM-SHU 288 Kinetic Interfaces OR INTM-SHU 304 Web Page to Web Space. Fulfillment: IMA elective or Advanced elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 304 Advanced Lab: Web Page to Web Space (4 Credits)*Typically offered every year*

Web Page to Web Space is a course that explores virtual interactive experience in the context of Virtual Embodiment, Virtual Space, Telepresence, and Metaverse. Students will investigate new possible ways of using the Web to create new immersive environments in a web platform, by utilizing algorithmic 3D animation and server-side programming. This is an advanced course with technically challenging concepts with three.js and node.js and suitable for students with prior knowledge in visual programming. Prerequisite: Nature of Code or Machine Learning for New Interfaces or Critical Data and Visualization or ABC Browser Circus or Kinetic Interfaces or Machine Learning for Artists and Designers or Expanded Web or Movement Practices and Computing or CSCI-SHU 101 Introduction to Computer and Data Science Fulfillment: IMA elective or Advanced IMA Elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 305 Advanced Seminar: Hello Metaverse (2 Credits)*Typically offered every year*

The aim of this course is to explore the relationship between the virtual self and environment and to assess both as a space for learning and collaboration using virtual reality. This course takes place entirely in virtual, immersive environments. Students will be provided Oculus Quest 2 virtual reality headsets and specialized software. See the principles above for further details. Prerequisite: IMA Major with junior or senior standing. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 306 Advanced Lab: Synthetic Media (4 Credits)*Typically offered Fall and Spring*

This advanced course investigates emerging trends in machine learning and artificial intelligence for generating media content - images, video, and sound. The course explores the idea of how artists, designers, and creators can use machine learning in their own research, production, and development processes. Students will learn and understand machine-learning techniques and use them to generate creative media content. We will cover a range of different platforms and models and also experiment with implementing the content with platforms for interaction design, such as Unity. Prerequisite: INTM-SHU 120 Communications Lab OR INTM-SHU 205 What's New Media OR INTM-SHU 124 Emerging Technologies & Computational Arts Fulfillment: IMA elective or Advanced elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 307 Advanced Lab: ABC Browser Circus on Tour (Mobile) (4 Credits)*Typically offered every year*

Hardly any application is as ubiquitous as the browser – pre-installed on every phone and computer. Moreover, the browser, has no on singular purpose, but is merely a shell for our code to run, visuals to be rendered and interactions to take place within. On mobile devices in particular, the browser's access to sensors such as GPS, gyroscope, cameras, and the conception of websites as "applications" offer unique opportunities for creative interventions. This course introduces the students to the history of the internet, the World Wide Web, and to the browser as a cultural object and its role in (net)art; it teaches web development and guides the students to create three web-based projects. ABC puts a particular focus on mobile browsers. In this advanced course, familiarity with web development, fundamental programming concepts and JavaScript are expected. Prerequisite: Sophomore standing or above. Fulfillment: IMA Advanced elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 308 Advanced Lab: Mixed Reality and Cultural Heritage (4 Credits)*Typically offered every year*

This course offers an experience with the intersection of technology and culture through collaborative teaching offered by faculty from Interactive Media Arts (IMA) and Global China Studies(GCS). Throughout the semester, students will dive into the world of Mixed Reality (MR) design, mastering space scanning technology, documenting historical sites, and conducting in-depth historical research. Students will use Unity, a cross-platform game engine, to craft immersive MR experiences that bring historical narratives to life. What sets this course apart is the real-world testing component, where students will refine their designs at actual historical sites. By the end, students will produce a digital immersive time-travel architecture, creating MR experiences that bring cultural heritage to life for modern audiences. Prerequisite: Sophomore standing or above. Fulfillment: IMA Advanced Elective; IMB major IMA/IMB elective; GCS Elective: Media, Arts, and Literature.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature
- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 350 Advanced Seminar: Media's Material and Environmental Relations (4 Credits)*Typically offered every other year*

In response to the popular conception of the "immaterial" Internet, and "datafication" of all aspects of life, how might we rethink the material lives of media and their entanglement with our urban and natural environments? This advanced seminar will introduce students to various theoretical frameworks in media studies including new materialism, media archaeology, studies of media infrastructures and ecologies, cultural geographies, and elemental media. Students will learn to develop research on the material history of media and also generate critical cartography to assess media's material imprints and their socio-political implications. Prerequisite: Junior standing OR What is New Media. Fulfillment: IMA elective or Advanced elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 351 Advanced Seminar: Machine Decision is Not Final (2 Credits)*Typically offered every year*

This 7-week course will introduce students to (1) the early history of cybernetics and artificial intelligence in China, (2) contemporary Chinese and Western cultural theory of artificial intelligence and (3) the theme of AI in contemporary Chinese science-fiction. AI is an increasingly important and contentious topic, generating philosophical debates about the nature of intelligence, political debates about the proper role of algorithmic technologies in society, as well as active speculation about the future. Based on the work of the NYU Shanghai Center for AI and Culture, this course will introduce students to the core issues in these areas. Prerequisite: Sophomore status or above. Fulfillment: IMA Advanced elective or elective; IMB IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 352 Advanced Media Theory (4 Credits)*Typically offered Fall*

This course provides students with conceptual tools and critical methods for an advanced study in media theory. Each semester, we will focus on a single book or thinker, engaging in slow, thoughtful reading. The course will introduce key concepts, examining their implications for media, technology, art, and expression. Through close reading and discussion students will learn how to approach dense theoretical texts and develop their own ways of engaging with complex ideas. For the final project, students will develop their own research papers or creative projects, which will culminate in a collective project (such as a website or installation) that assembles students' theoretically informed practices born from the semester's conceptual journey. Prerequisite: Sophomore standing or above. Fulfillment: IMA advanced elective; IMB Major IMA/IMB Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Advanced Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

INTM-SHU 400 Capstone Studio I (4 Credits)*Typically offered Spring*

Capstone is a course that allows students to focus independently on a self-directed project that integrates concepts and technical skills learned in courses offered through the IMA program. In Capstone 1, students are asked to write a research paper as an independent study. Each student is assigned faculty advisors who assist in providing guidance and directions. The main objective is for students to conduct a comprehensive study within their selected area in Interactive Media Arts and participate in class presentations, peer-review sessions, workshops, and discussions. Prerequisite: Seniors with primary major in IMA. Fulfillment: IMA Major Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Capstone

INTM-SHU 401 Capstone Studio II (4 Credits)

Capstone is a course that allows students to focus independently on a self-directed project that integrates concepts and technical skills learned in courses offered through the IMA program. In Capstone 2, students are asked to develop a practical media project as an independent study. Each student is assigned faculty advisors who assist in providing guidance and directions. The main objective is for students to great comprehensive work within their selected area in Interactive Media Arts and participate in class presentations, peer-review sessions, and a final exhibition.

Prerequisite: INTM-SHU 400 Capstone Studio I. Fulfillment: IMA Major Capstone.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Capstone

INTM-SHU 997 Independent Study (2-4 Credits)

Prerequisite: permission of the department. Students majoring in IMA are permitted to work on an individual basis under the supervision of a full-time faculty member in the department if they have maintained an overall GPA of 3.0 and have a study proposal that is approved by an IMA professor. Students are expected to spend about ten to twelve hours a week on their project for 4 credits. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

Interdisciplinary Studies (IDIS-SHU)

IDIS-SHU 997 Independent Study - Interdisciplinary (2-4 Credits)

Prerequisite: permission of the Dean and Assistant Provost for Academic Affairs. 2 or 4 credits. Students are permitted to work on an individual basis under the supervision of a full-time faculty member in the academic discipline if they have maintained an overall GPA of 3.0 and have a study proposal that is approved by the professor. Students are expected to spend about ten to twelve hours a week on their project for 4 credits. The results of the study are embodied in a report of a type required by the instructor. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

Japanese Language (JAPN-SHU)

JAPN-SHU 5 Elementary Japanese I (4 Credits)

Introductory course in modern spoken and written Japanese, designed to develop fundamental skills in areas of speaking, listening, reading, and writing. Gives contextualized instructions to develop both communicative and cultural competency. Systematically introduces the Japanese writing system (Hiragana, Katakana, and Kanji). Open to students with no previous training in Japanese and to others on assignment by placement test. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

JAPN-SHU 10 Elementary Japanese II (4 Credits)

Open to students who have completed JAPN-SHU 5 Elementary Japanese I or the equivalent, or by placement exam (<http://www.nyu.edu/cas/flpexam/>). This course builds on the foundations of Japanese grammar and language through a balanced approach of the four skills. Students will learn relevant lexical items and grammar points in context. Prerequisite: JAPN-SHU 5 Elementary Japanese I or EAST-UA 247. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

JAPN-SHU 15 Intermediate Japanese I (4 Credits)

This course is designed to build on the first year Japanese by studying increasingly complex grammatical patterns, vocabulary and phrases, and syntax in order to expand our level of comprehension and developing our ability to produce longer and more nuanced sentences in speaking, reading, and writing. Prerequisite: JAPN-SHU 10 Elementary Japanese II. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

JAPN-SHU 20 Intermediate Japanese II (4 Credits)

Typically offered all terms

This course is a continuation of Intermediate Japanese I. It is designed for students to learn increasingly complex grammatical patterns, vocabulary and phrases, and syntax in order to expand their level of comprehension and developing their ability to produce longer and more nuanced sentences in speaking, reading, and writing. Furthering reading abilities is one of the major objectives. This course also prepares students to discuss, describe, explain, and summarize various topics by integrating the language skills. Prerequisite: JAPN-SHU 15 or equivalent with a minimum grade of C-, or placement exam (<http://www.nyu.edu/cas/flpexam/>). Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

JAPN-SHU 25 Advanced Japanese I (4 Credits)

Typically offered every year

Continuing study of Japanese at the advanced level. Stresses reading comprehension, spoken fluency, and composition; uses original materials, such as newspaper/magazine articles, TV news, and video. Introduces additional Kanji characters. Advanced use of Japanese and character dictionaries. Prerequisite: JAPN-SHU 20 or the equivalent (EAST-UA 250) with a minimum grade of C+ Fulfillment: Counts toward Japanese minor

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

JAPN-SHU 30 Advanced Japanese II (4 Credits)

Typically offered every year

Continuing study of Japanese at the advanced level. Stresses reading comprehension, spoken fluency, and composition; uses original materials, such as newspaper/magazine articles, TV news, and video. Introduces additional Kanji characters. Advanced use of Japanese and character dictionaries. Prerequisite: JAPN-SHU 25 or the equivalent (EAST-UA 252) with a minimum grade of C+. 4 points per term Fulfillment: Japanese Minor.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Journalism (JOUR-SHU)

JOUR-SHU 201T Mixed Media Writing: Radio and Television (4 Credits)

This course both introduces students to basic radio journalism, television journalism and podcast techniques and challenges those techniques.

How has the digital revolution been transforming what we are now calling audio and video journalism? How can these forms continue to improve? Students will be presented with examples ranging from Edward R. Murrow's seminal television documentary, *Harvest of Shame*, to installments of such pathbreaking radio programs as *This American Life* and *Radio Lab*, to experimental work such as Jorge Furtado's Brazilian documentary, *Island of the Flowers*. Students will also be asked to share their own examples of effective audio and video journalism in a variety of styles, from a variety of countries. Readings, too, will be used as examples of what journalism has accomplished and might accomplish. This will be a hands-on course. Students will have an opportunity to produce their own audio and video journalism in traditional and nontraditional styles. No prerequisites. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

JOUR-SHU 202 Journalism: Newsroom (2 Credits)

Typically offered Fall and Spring

This two credit course gives students practical experience in the real world activity of publishing news and information for audiences, specifically through NYU Shanghai's online student publication *On Century Avenue*. Students will be guided in the journalistic practice of preparing stories for publication for main and sub-sections of the website that cover on-going events and issues related to NYU Shanghai campus. The course will give students an opportunity to put into practice the theory and technical skills they have acquired during their Journalism course and/or in other Creative Writing courses. It will expose them to the realities and pressures of timely and time-sensitive news gathering as well as the publishing arts of content management and understanding audiences. They will have an opportunity to be journalists and contributors to the website. The Newsroom course will act as an ancillary production hub for the publication. In practice, students will write their own work and collaborate collegially to share ideas and the structure of their proposed stories to further shape them for publication. They will be expected to learn how to consult on story ideas and take direction and to act in a professional manner. They will experience a working newsroom environment that is overseen by the lecturer who will provide continual feedback on story development, editing, and publishing advice. The course outcomes are intended to give students a working knowledge of how an online newsroom functions and expose them to various journalism and content collection roles, challenges and setbacks. The personal rewards will come from influencing and contributing to published content and learning the importance and potential influence of media. The course structure will involve lectures and collaborative and on-going editorial workshops. There will be one class per week and the lecturer will be available at all other times to discuss individual story development. Assignments will consist of sourcing, writing, editing and publishing news stories and/or features for *On Century Avenue*. This course can be repeated for credits twice. The total completion allowed is 2 times and the total units allowed is 4 credits. Prerequisites: Journalism: Methods and Practice (001 or 002); OR a grade of C or higher in Writing as Inquiry; OR their equivalents in New York or Abu Dhabi. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

JOUR-SHU 203 Journalism and Society in China (4 Credits)*Typically offered Fall*

This four credit course examines the role and functions of journalists and the media in Chinese society as modern reporting moves into the digital media landscape. To provide context to the political and cultural environment of news-gathering, the course assesses the development of journalism in China through the 20th century from around the birth of the Republic of China (1911) and through to the modern era. It will examine the relatively free publishing environment for newspapers in the lead-up to establishment of the People's Republic of China (1949) and the imposition of government control thereafter. Through providing an understanding of the parallel publishing environment of institutional traditional media ownership and today's free-enterprise online media corporations, the unit studies how reporters operate in both. Students will gain an understanding of the strong nexus between government and media and the ever-present need for journalists to portray various aspects of Chinese ideology at the same time as functioning as news reporters. The portrayal of media as propagandist will be considered against the abiding devotion of journalists to lift the veils on truth. The roles, functions and rounds of journalism as practiced in China will be studied through class discussion and assignments and these will include reporting across all publishing platforms of politics, business, the environment and national issues. The impact of digital journalism will be an underlying theme through the course. The course structure will involve lectures, workshops, seminars, guest speakers and an industry visit. There will be two 3-hour classes per week. Assignments will include a blend of in-class group and individual presentations and two written papers. Prerequisite: None. Fulfillment: GCS Chinese Media, Arts, and Literature; The Global Network Minor in Journalism Studies.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese Media, Arts, and Literature

JOUR-SHU 9202 Methods and Practice: Journalism (4 Credits)*Typically offered Fall and Spring*

It provides an introduction to the work of the reporter, with particular focus on covering China, and offers students a chance to learn and practice basic journalism skills, including news writing, descriptive & feature writing, and writing for TV etc. Feedback on assignments is given in individual meetings. Visiting speakers and field trips also offer insights into the role of the journalist and the challenges faced. Prerequisites: C or higher in Writing as Inquiry or Sophomore standing Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

Korean Language (KORE-SHU)

KORE-SHU 5 Elementary Korean I (4 Credits)*Typically offered Fall and Spring*

This is the first semester of Korean, open to students with little to no experience in Korean language study. It is designed to introduce the Korean language and alphabet, Hangul, and provides a solid foundation in all aspects of the language, including speaking, listening, reading, and writing. Students study the language's orthographic and phonetic systems, grammar, syntax, and vocabulary within social and cultural contexts. Prerequisite: None. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**KORE-SHU 10 Elementary Korean II (4 Credits)***Typically offered Fall and Spring*

This is the second semester of Korean, open to students who have completed Elementary Korean I (or the equivalent), or by placement exam. It is designed to reinforce the Korean language and alphabet, Hangul, and provides a solid foundation in all aspects of the language, including speaking, listening, reading, and writing. Students study the language's orthographic and phonetic systems, grammar, syntax, and vocabulary within social and cultural contexts. Prerequisite: Elementary Korean I (KORN-SHU 5) or the equivalent, or by placement exam.

Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**KORE-SHU 15 Intermediate Korean I (4 Credits)***Typically offered every year*

This is the first semester in the second-year sequence of Korean language. It includes phonetics, grammar, syntax, and vocabulary. The course emphasizes the development of communicative skills in listening, speaking, reading, and writing. Develops the language's major social and cultural contexts. Requires students to write about and discuss various topics. Prerequisite: Elementary Korean II or the equivalent, or by placement exam Fulfillment: General electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Law and Society (LWSO-SHU) Literature (LIT-SHU)

LIT-SHU 200 Topics in Literature: (4 Credits)*Typically offered occasionally*

Prerequisite: None. Fulfillment: Identity, Gender, and Language: Humanities Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

LS Cultural Foundations (CIII-SHU) LS Social Foundations (SIII-SHU)

Management (MGMT-SHU)

MGMT-SHU 4 Global Strategy (4 Credits)

The world is going through fundamental and structural changes. The Global Strategy course discusses the implications for business strategy and challenges and opportunities that companies face. As the process of globalization and digitization accelerates, business organizations are exploring new ways to adapt and grow. The emphasis will be placed on how companies operate in different socio-economic, technological, and institutional environments and overcome these differences, what kind of analytical tools may be used to assess international market conditions, and the sources of competitive advantage in a dynamic global context. Students will learn methods to build strategic mindset and capabilities to navigate in a fast changing global environment. Prerequisite: Sophomore standing or above. Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Management track; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MGMT-SHU 18 Strategic Analysis (4 Credits)

Typically offered occasionally

This course provides an introduction to the basic frameworks of modern strategy that aim to help firms establish and sustain competitive advantages. The objective of this course is to introduce students to the role of the “general manager,” who is faced by core strategic choices that concern the long-term performance of the firm, and provide them with the necessary skills to formulate and implement effective strategies. This course is equally relevant for students who want to work with companies as consultants, attorneys or investors, helping clients understand and solve critical strategic issues. From this course, you’ll learn to think critically and analytically about competitive business situations. You’ll also learn to embrace uncertainty, ambiguity and complexity of these situations, and to help firms improve the decision making process with sensible and actionable solutions. Firm performance is jointly determined by external economic and internal organizational forces. As a general manager, students need to have the ability to conduct strategic analysis at both the firm and industrial levels. To help them develop these analytical skills, this course is organized around four questions that are central to firms’ strategic decisions: • What is the firm’s external environment? • What is the firm’s competitive advantage? • With whom should the firm compete? • How should the firm compete? To answer these questions, we will cover the following four main topics in this course: • Industry analysis: the environment, opportunities, threats, industry competition • Firm level strategy: competitive advantage • Competitive dynamics • Corporate strategy This course combines interactive lectures and case analyses. While the lectures provide a synthesized theoretical framework as the guidance for logical thinking, the case analyses offer an opportunity to integrate and apply the theoretical framework in a practical way. Prerequisite: second year or above students. Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Management track; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MGMT-SHU 301 Management and Organizations (4 Credits)*Typically offered Fall and Spring*

This course addresses contemporary management challenges stemming from changing organizational structures, complex environmental conditions, new technological developments, and increasingly diverse workforces. It highlights critical management issues involved in planning, organizing, controlling, and leading an organization. Ultimately, it aims to strengthen students' managerial potential by providing general frameworks for analyzing, diagnosing, and responding to both fundamental and complex organizational situations. It also provides opportunities for students to enhance their communication and interpersonal skills, which are essential to effective management. The structure of the course encourages learning at multiple levels: through in-class lectures, exercises, and discussions; in small teams carrying out projects; and in individual reading, study, and analysis. Prerequisite: Not open to first-semester students. Fulfillment: This course satisfies BUSM/ BUSF business core elective, Business Management Track; IMB Business Flexible Core. This course can count for the CAS Business Studies Minor for Study Away Students.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Business Elective
- SB Crse Attr. NYU Shanghai: BUSM Business Elective
- SB Crse Attr. NYU Shanghai: IMB Business Flexible Core Course

MGMT-SHU 401 Research Methods in Management and Organizations (4 Credits)*Typically offered every year*

The objective of this undergraduate research methods course is to provide a "guided" tour of the key areas of organizational behavior and key methodologies used to study each area. The course seeks to provide a forum in which to learn the process of doing research on a variety of topics including motivation, diversity, decision-making, and social network. How do we study someone's social network? How do we measure the level of motivation correctly? How do we know whether one's decision was "good" or "bad"? Every week, students will be asked to read a research paper, to learn about how the researchers actually tested their hypotheses, using diverse methods including laboratory experiments, longitudinal surveys, and computer simulations. Prereq: Management and Organizations (MGMT-SHU 301) and Statistics for Business and Economics (BUSF-SHU 101) and junior standing or above. Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Management track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

MGMT-SHU 425 Managing Change (4 Credits)*Typically offered every year*

An organization's performance depends critically on its ability to implement strategic change. Particularly in the fast-paced environment of business today, organizations must regularly plan for and deal with strategic change. A major challenge for global leaders at all levels, then, is to anticipate the need for these strategic changes and to introduce them in a way that maximizes acceptance and commitment across the organization and beyond. Prerequisite: Management & Organizations (MGMT-SHU 301) Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; Business Management Track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

Marketing (MKTG-SHU)

MKTG-SHU 1 Introduction to Marketing (4 Credits)*Typically offered Fall and Spring*

Evaluates, from the management point of view, marketing as a system for the satisfaction of human wants and a catalyst of business activity. Deals with the subject at all levels, from producer to consumer, and emphasizes the planning required for the efficient use of marketing tools in the development and expansion of markets. Concentrates on the principles, functions, and tools of marketing, including quantitative methods. Utilizes cases to develop a problem-solving ability in dealing with specific areas. Prerequisite: Not open to first-semester students. Fulfillment: This course satisfies BUSM Marketing Core, BUSF: Business elective, IMB Business Flexible Core or elective; Data Science concentration in Marketing; Count for CAS Business Minor, Count for Stern Business Studies Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Business Elective
- SB Crse Attr. NYU Shanghai: BUSM Marketing Core
- SB Crse Attr. NYU Shanghai: Data Science Elective Concentration in Marketing
- SB Crse Attr. NYU Shanghai: IMB Business Elective
- SB Crse Attr. NYU Shanghai: IMB Business Flexible Core Course

MKTG-SHU 2 Consumer Behavior (4 Credits)*Typically offered Fall*

This course presents a comprehensive, systematic, and practical conceptual framework for understanding people as consumers—the basic subject matter of all marketing. It draws on the social sciences to evaluate the influence of both individual and ecological factors on market actions. Students discuss relevant psychological and sociological theories and study how they can be used to predict consumers' reactions to strategic marketing decisions. Basic methodologies for research in consumer behavior are developed and applied. Course emphasis is on developing applications of behavioral concepts and methods for marketing actions. Pre-requisite: MKTG-SHU 1 Intro to Marketing Fulfillment: BUSF Non-Finance elective; BUSM Marketing elective; Business Marketing track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

MKTG-SHU 3 Advertising Management (4 Credits)*Typically offered Fall and Spring*

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 the stages in 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 utilizes learning in all functional areas of advertising, while simulating the development of an advertising campaign. Prereq: Intro to Marketing (MKTG-SHU 1) Fulfillment: BUSF Non-Finance elective; BUSM Marketing elective; Business Marketing track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

MKTG-SHU 9 Research for Customer Insights (4 Credits)*Typically offered Fall and Spring*

At the core of successful marketing is a deep understanding of the customer's perspective, one that is informed not only by intuition, but also by data. What are his or her pain points? How will he or she respond to my latest invention? This course provides students with the tools needed to conduct essential marketing research that can inform data-driven decision-making and strategy. These tools include imagery-guided interviews, surveys, focus groups, experiments, and applied statistical analyses (e.g. cross-tabulations, t-tests, regressions). This course also introduces fundamental methods that are critical for segmentation, identifying the right target market, brand positioning, and pricing various products and services. This course explores topics through a combination of business case studies and hands-on experience with an actual, "live" marketing research project. Prerequisite: Intro to Marketing (MKTG-SHU 1) Fulfillment: BUSM Marketing Elective; BUSF Non-Finance Elective; Business Marketing track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

MKTG-SHU 53 Pricing (4 Credits)*Typically offered occasionally*

Prerequisite: MKTG-SHU 1 Introduction to Marketing. Fulfillment: BUSF Non-Finance elective; BUSM Marketing elective; Business Marketing track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

MKTG-SHU 57 Digital Marketing (4 Credits)*Typically offered Fall and Spring*

Digital marketing has experienced tremendous growth and attention over the last few years, thanks to technological innovation and rapid changes in online social networks and digital consumer behavior. This course tackles the latest topics in digital marketing (e.g. digital platforms, online reviews, mobile marketing, influencers), through a combination of business case studies reflecting recent frameworks in the field, in-class exercises on metrics and methods for evaluating the success of digital marketing, and coverage of the latest news and innovation in digital marketing. This course also provides in depth exposure to the psychology of virality and social influence in digital contexts, which is critical for understanding both social media marketing and broader cultural trends. Prerequisite: Intro to Marketing (MKTG-SHU 1) Fulfillment: BUSM Marketing Elective; BUSF Non-Finance Elective; Business Marketing track; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

MKTG-SHU 64 Global Marketing Strategy (4 Credits)*Typically offered occasionally*

Examines the specific issues involved in entering international markets and in conducting marketing operations on an international scale. Attention is focused on problems such as identifying and evaluating opportunities worldwide, developing and adapting market strategies in relation to specific national market needs and constraints, and coordinating global marketing and branding strategies. Emphasis is on strategic issues relating to international operations rather than on technical aspects of exporting and importing. Pre-Requisite: Introduction to Marketing Fulfillment: BUSF Non-Finance elective; BUSM Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MKTG-SHU 110 Practicum on Innovation and Branding (4 Credits)*Typically offered Spring*

Innovation is the process by which an organization generates creative new ideas and converts them into viable commercial products. Branding, on the other hand, is the process of creating a unique image for the product in the consumers' mind. This perception reflects on the organization as a whole. Moreover, branding aims to establish a differentiated presence in the marketplace to attract and retain loyal customers. Thus, innovation and branding are inextricably linked for organizational success, or survival, in today's hyper-competitive business landscape. This course aims to equip students with knowledge in both the innovation and branding processes. By participating in the International L'Oreal Brandstorm Competition, students will gain practical experience in formulating an idea, develop branding around said idea, and then pitching said idea (innovation and branding) in a competitive forum. Students will also develop an understanding of the role of design and innovation as a collaborative, multidisciplinary group activity; and improve writing and presentation skills. The course incorporates multiple ways of learning including: lectures, case studies, ethnographic research, industry expert feedback on projects and guest presentations, and design activities in the interactive media lab. In essence, the course integrates a project-based learning approach. Prerequisites: None. Fulfillment: IMB Business elective; BUSM Marketing Elective if Intro to Marketing has been taken, otherwise Non-finance/Non-marketing Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MKTG-SHU 154 Digital Marketing Analytics (4 Credits)

Demand for advanced marketing professionals is rapidly increasing due to (1) the explosion of consumer data created by the digitization of commerce and (2) methodological advances in data science and engineering supported by decreased data storage and processing cost. This course introduces students to a comprehensive set of models that marketing analytics professionals – data scientists, managers, and executives – will encounter in applied business contexts. Additionally, this course will cover related topics on successfully integrating marketing analytics into broader organizational functions: data acquisition and analysis environments, stakeholder scoping and communication, and product technical integration. Prerequisite: Statistics for Business and Economics (BUSF-SHU 101), and Introduction to Marketing (MKTG-SHU 1) Fulfillment: BUSF Non-Finance Elective; BUSM Marketing elective; IMB Business Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MKTG-SHU 200 Strategic Marketing in China: Live Projects and Case Studies (4 Credits)*Typically offered Fall*

For most marketers, China is probably one of the most dynamic markets to do business in today. It offers unlimited new opportunities and endless challenges. The purpose of this course is to provide students with first-hand experience in dealing with some of the marketing practices and issues particular to China. The course consists of a combination of live projects, case analyses, lectures, guest talks by industry experts and company visits. The course provides students with a framework for researching and developing a strategic marketing plan, as grounded in theory and industry practice. Student teams will apply structured problem-solving approaches in an iterative and competitive process. They will gain a holistic understanding of the challenges of doing marketing in China. Pre-requisites: Introduction to Marketing, requires junior or senior standing. Fulfillment: Business: China Business Studies; BUSM Marketing Elective; BUSF Non-Finance Elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MKTG-SHU 228 Strategic Marketing in China: Live Projects and Case Studies (4 Credits)*Typically offered Fall*

For most marketers, China is probably one of the most dynamic markets to do business in today. It offers unlimited new opportunities and endless challenges. The purpose of this course is to provide students with first-hand experience in dealing with some of the marketing practices and issues particular to China. The course consists of a combination of live projects, case analyses, lectures, guest talks by industry experts and company visits. The course provides students with a framework for researching and developing a strategic marketing plan, as grounded in theory and industry practice. Student teams will apply structured problem-solving approaches in an iterative and competitive process. They will gain a holistic understanding of the challenges of doing marketing in China. Pre-requisites: Intro to Marketing and Junior/Senior Level Standing. Fulfillment: Business: China Business Studies; BUSM Marketing Elective; BUSF Non-Finance Elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MKTG-SHU 229 Luxury and Luxury Marketing (4 Credits)

The Luxury and Luxury Marketing course will provide fundamentally new insights into the seemingly elusive concept of luxury using examples from real life and precise luxury brand cases. In this course, students will be guided to explore fundamental concepts, theories, and frameworks of luxury and luxury marketing. Furthermore, through videos, cases, articles, and personal challenges, students will gain knowledge of the evolution process and motivations of luxury products, consumer tastes, creativity and innovation, and luxury goods companies; strategies through time. This course will also demonstrate the state of the luxury industry today and the core of luxury and luxury branding. To bridge theory and practice, the course interweaves lectures, case discussions, field trip and project presentation. Open to Sophomore and above students. Fulfillment: BUSM Marketing Elective; BUSF Non-Finance Elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

MKTG-SHU 310 Retail Technology and Channel Management: The Chinese Market (4 Credits)*Typically offered every year*

Channels are to business as blood vessels are to the human body. With information and technology developing rapidly, especially in China, marketers must understand how channel management and retail technology are crucial to business success. This course introduces the concepts of channel and retail functions and management. Then, it takes students through how to improve channel and retail efficiency to grow a business and win more customers with technology empowerment. By the end of this course, students will have the tools and understand the processes needed to enable them to analyze gaps, identify issues, develop improvement proposals, and assess solutions in accurate business world simulations. Prerequisite: Introduction to Marketing (MKTG-SHU 1) Fulfillment: BUSF Non-Finance elective or China Business Studies; BUSM Marketing elective or China Business Studies; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF China Business Studies
- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM China Business Studies
- SB Crse Attr: NYU Shanghai: BUSM Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective

Mathematics (MATH-SHU)

MATH-SHU 5 Chance (4 Credits)*Typically offered occasionally*

Chance is a common word whose meaning can vary, but which generally applies to situations involving a certain amount of unpredictability. How does it differ from fortune – or luck? Is it synonymous with randomness? We all try to increase our chances of success; how do such efforts involve taking or minimizing certain risks? If philosophical discussions about chance can be traced back to antiquity, probabilistic and statistical concepts appeared more recently in mathematics. Starting with gambling strategies, the theory now applies to the core of almost all scientific and technical fields, including statistical and quantum mechanics, chaotic dynamics, phylogenetics, sociology, economics, risk management, and quality control. Bringing together materials and questions from philosophy, mathematics, and other disciplines, this course provides a journey in the history of ideas. Students will investigate key concepts (including independence, expectation, confidence intervals, or tests), consider their applications to specific fields of science, and illustrate them by computer experiments. Readings include excerpts from Lucretius, Pascal, Hume, Laplace, Peirce, and Hacking. Prerequisite: None. Fulfillment: CORE STS.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society

MATH-SHU 9 Precalculus (4 Credits)*Typically offered Fall*

This course is designed as a preparation for calculus, including study of basic properties of polynomials, rational functions, exponential and logarithmic functions, and trigonometric functions. Systems of linear equations and matrix operations are also covered. Prerequisite: None.

Fulfillment: Core Curriculum Math requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Math

MATH-SHU 10 Quantitative Reasoning: Great Ideas in Mathematics (4 Credits)*Typically offered Fall and Spring*

Great Ideas in Mathematics. This one-semester course serves as an introduction to great ideas in mathematics. During the course we will examine a variety of topics chosen from the following broad categories. 1) A survey of pure mathematics: What do mathematicians do and what questions inspire them? 2) Great works: What are some of the historically big ideas in the field? Who were the mathematicians that came up with them? 3) Mathematics as a reflection of the world we live in: How does our understanding of the natural world affect mathematics (and vice versa). 4) Computations, proof, and mathematical reasoning: Quantitative skills are crucial for dealing with the sheer amount of information available in modern society. 5) Mathematics as a liberal art: Historically, some of the greatest mathematicians have also been poets, artists, and philosophers. How is mathematics a natural result of humanity's interest in the nature of truth, beauty, and understanding? Why is math a liberal art? Prerequisite: None. Fulfillment: Core Mathematics requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Math

MATH-SHU 121 Calculus I (4 Credits)*Typically offered occasionally*

This course presents the foundations of calculus for functions of a single variable. Topics addressed include limits, continuity, rules of differentiation, antiderivatives, definite integrals and the fundamental theorem of calculus. Prerequisite: Placement examination or a grade of C or above in MATH-SHU 009 Precalculus. Please note that this course is not equivalent to MATH-SHU 131 Calculus (formerly MATH-SHU 121) and will not be recognized as fulfilling the Calculus prerequisites of higher-level MATH-SHU courses. Students pursuing the following majors will therefore not be able to use MATH-SHU 131 to fulfill major requirements: Economics, Natural Sciences, Mathematics, Data Science, Computer Science, Engineering.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Antirequisites: MATH-SHU 201 Honors Calculus.

MATH-SHU 131 Calculus (4 Credits)*Typically offered Fall and Spring*

This course presents the foundations of calculus for functions of a single variable. Topics addressed include limits, continuity, rules of differentiation, approximation, antiderivatives, indefinite and definite integrals, the fundamental theorem of calculus, integration techniques, and improper integrals. Prerequisite: Pre-placement by Faculty based on high-school grades, OR NYU SH "Calculus and Linear Algebra" placement exam, OR grade C or better in MATH-SHU 9 (Precalculus) Antirequisite: MATH-SHU 201 (Honors Calculus) Fulfillment: Economics Core Math requirement; Math Core Math requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Antirequisites: MATH-SHU 201 Honors Calculus.

- SB Crse Attr: NYU Shanghai: Economics Core Math Requirement
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements

MATH-SHU 140 Linear Algebra (4 Credits)*Typically offered Fall and Spring*

This first course in linear algebra covers systems of linear equations, vectors, linear transformations, matrices and their determinants, vector spaces, basis and dimension, eigenvectors and eigenvalues, quadratic forms, and matrix decompositions. In addition to its role as an essential topic within mathematics, linear algebra is also critically useful throughout the sciences: for example, in estimation theory, chemical equations, electrical networks, and heat distributions. Prerequisite: Sufficient high school grades, or NYU SH "Calculus and Linear Algebra" placement exam, or a grade of C or better in MATH-SHU 9 (Precalculus). Anti-Requisite: MATH-SHU 141. Equivalency: This course counts for MATH-UA 140. Fulfillment: Math required, Honors Math required (with MATH-SHU 143); Engineering required, DS required Math course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Required Mathematics
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course

MATH-SHU 141 Honors Linear Algebra I (4 Credits)*Typically offered Fall*

This is the first semester of a 2-semester sequence in linear algebra for advanced mathematics majors. Topics covered include fields, vector spaces, linear independence, dimension, linear transformations, rank, matrices, eigenvalues, eigenvectors, determinants, characteristic polynomials, and the Cayley-Hamilton theorem. Examples from applications are also covered, including interpolation problems, traffic flows, genetics, the fundamental theorem of algebra, electric circuits, static mechanics, and consumption matrices in economics. Prerequisite: Pre-placement by Faculty based on high-school grades, or NYUSH "Honors Calculus and Honors Linear Algebra" placement exam, or grade C or better in MATH-SHU 140 (Linear Algebra) or grade C or better in MATH-SHU 265 (Linear Algebra and Differential Equations). Fulfillment: Math Constrained Math Elective; Honors Math required, DS Math required course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**MATH-SHU 142 Honors Linear Algebra II (4 Credits)***Typically offered Spring*

This course is a continuation of Honors Linear Algebra I. Topics covered include eigenspaces, multiplicities of eigenvalues, diagonalization, the Schur decomposition theorem, inner product spaces, the Gram-Schmidt process, orthogonality, adjoint maps, spectral theory, self-adjoint, normal, and unitary maps, bilinear forms, the Cholesky theorem, singular value decomposition, pseudoinverses, least-squares solutions via normal equations, ideals of polynomials, reducibility of maps, nilpotence, the Jordan decomposition theorem, minimal polynomials, the Penrose-Frobenius theorem, and stochastic matrices. Example covered from applications include data compression, optimization, QR factorization of least squares approximation, solutions of simultaneously coupled polynomial equations, determination of the critical temperature of a superconductor, and image compression via singular value decomposition. Prerequisite: Grade C or better in MATH-SHU 141 (Honors Linear Algebra I), or grade C or better in MATH-SHU 140 (Linear Algebra) and grade C or better in MATH-SHU 143 (Foundations of Mathematical Methods) Fulfillment: Math Constrained Math Elective; Honors Math required; DS concentration in Math.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Mathematics
- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 143 Foundations of Mathematical Methods (4 Credits)*Typically offered Spring*

This course is an introduction to the tools of mathematical reasoning, which serves as a solid basis for advanced courses emphasizing proofs and abstraction. Topics include formal logic, sets, relations, and functions, proof techniques, cardinality, complex numbers, combinatorics, discrete probability. Prerequisite: Pre-placement by faculty based on high-school grades, or NYUSH "Calculus and Linear Algebra" placement exam or grade C or better in MATH-SHU 131 Calculus. Antirequisite: MATH-SHU 201 (Honors Calculus). Fulfillment: Honors Math required (with MATH-SHU 140).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Prerequisites: Pre-placement by faculty based on high-school grades, or NYUSH "Calculus and Linear Algebra" placement exam OR grade C or better in MATH-SHU 131 Calculus.

Antirequisites: MATH-SHU 201.

- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course

MATH-SHU 151 Multivariable Calculus (4 Credits)*Typically offered Fall and Spring*

This course explores calculus of functions of several variables. Topics covered include power series, differentiation and integration of functions of several variables, including directional derivatives, the gradient, line and multiple integrals, and the theorems of Green, divergence, and Stokes. Prerequisite: Grade C or better in either MATH-SHU 131 (Calculus) or MATH-SHU 201 (Honors Calculus) Antirequisite: MATH-SHU 329 (Honors Analysis II) Equivalent to MATH-UA 123, MATH-AD 112. Fulfillment: CHEM required; PHYS required; Engineering required; MATH required; DS required Math course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Antirequisites:** MATH-SHU 329 (Honors Analysis II).

- SB Crse Attr: NYU Shanghai: Chemistry Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Required Mathematics
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Physics Required

MATH-SHU 160 Networks and Dynamics (4 Credits)*Typically offered Spring*

Today, networks and dynamics play fundamental roles throughout science, engineering and the social sciences. This is a post-calculus mathematics course that is designed to prepare students to understand the mathematical behavior of networks and dynamics as the students enter a broad set of majors -- from mathematics, the natural sciences and engineering through the social sciences such as economics and finance. The preliminary goal is to address the following challenge: today's science and society at large requires us to understand complex networks (be it genetic network that makes us who we are, neural network underlying our brain functions, social network of friends through Facebook or WeChat) and how the behavior of such a complex network evolves in time. The language for providing a scientific understanding of such systems is the mathematics of network theory and dynamical systems theory. This course will introduce analytical methods and mathematical models from network and dynamical systems theory toward understanding dynamical network behavior. Prerequisite: Grade C or better in either MATH-SHU 131 (Calculus) or MATH-SHU 201 (Honors Calculus), and grade C or better in either MATH-SHU 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I). Fulfillment: Biology elective; Economics elective; Math additional Math elective; Honors Math elective; NS elective; Engineering required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Economics Elective
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective
- SB Crse Attr: NYU Shanghai: Neural Science Elective

MATH-SHU 201 Honors Calculus (4 Credits)*Typically offered Fall*

This is a rigorous course in single-variable calculus for mathematics majors, providing preparation for advanced courses in analysis. Topics covered include number systems, functions, graphs, vectors, conic sections, polar coordinates, limits, continuity, least upper bounds, the derivative, convexity and concavity, inverse functions, parametric curves, Riemann sums, integrals, and the fundamental theorem of calculus. Prerequisite: Pre-placement by Faculty based on high-school grades, or NYU SH "Honors Calculus and Honors Linear Algebra" placement exam, or grade A- or better in MATH-SHU 131 (Calculus). Antirequisite: MATH-SHU 143 (Foundations of Mathematical Methods) Fulfillment: Math required; Honors Core Math required; ECON Core Math required; DS Concentration in Math.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Antirequisites:** MATH-SHU 143.

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Mathematics
- SB Crse Attr: NYU Shanghai: Economics Core Math Requirement
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course

MATH-SHU 226 Functional Analysis (4 Credits)*Typically offered occasionally*

This course on applications of concepts in functional analysis gives special emphasis to function spaces used in practice, including Hilbert, Hardy, and Sobolev spaces. Other topics covered include the spectral theorem and its application to differential equations, Fourier series, compact operators, Fredholm determinants, measure, volume, and nonlinear analysis for infinite-dimensional spaces, and Brownian motion. Prerequisite: Grade C or better in MATH-SHU 339 (Real variables). Fulfillment: Math Constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 234 Mathematical Statistics (4 Credits)*Typically offered Fall*

This course offers an introduction to mathematical statistics. It covers the essential topics of statistics including point estimation, interval estimation, Bayesian inference, hypothesis testing, and linear and logistic regression. This class requires a good prior understanding of probability theory, calculus, and linear algebra. Prerequisite: Grade C or better in either MATH-SHU 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I), and grade C or better in either MATH-SHU 235 (Probability and Statistics) or MATH-SHU 238 (Honors Theory of Probability). Fulfillment: Honors Math Electives, Math Additional electives; DS Data Analysis or concentration in Math.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Mathematics
- SB Crse Attr: NYU Shanghai: Data Science Required Data Analysis
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 235 Probability and Statistics (4 Credits)*Typically offered Fall and Spring*

This course comprises a combination of the theory of probability and the mathematical foundations with techniques of modern statistical analysis. It is designed to acquaint the student with both probability and statistics in the context of their applications to the sciences. In probability: mathematical treatment of chance; combinatorics; binomial, Poisson, and Gaussian distributions; law of large numbers and the normal distribution; application to coin-tossing, radioactive decay, and so on. In statistics: sampling; normal and other useful distributions; testing of hypotheses; confidence intervals; correlation and regression; and applications to scientific, industrial, and financial data. Prerequisite: MATH-SHU 131 Calculus or 210 Honors Calculus. Not open to students who have taken MATH-SHU 238 Honors Theory of Probability and/or MATH-UA 234 Mathematical Statistics. Equivalency: This course counts for MATH-UA 235. Fulfillment: Math required course, Social Science Methods, Business Core, CS & CE & EE required, Data Science foundational, Economics required, PHYS required, IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Antirequisites:** MATH-SHU 238 Honors Theory of Probability.

- SB Crse Attr: NYU Shanghai: BUSF Business Core
- SB Crse Attr: NYU Shanghai: BUSM Business Core
- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Foundational
- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Physics Required
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

MATH-SHU 238 Honors Theory of Probability (4 Credits)*Typically offered Spring*

This course is an introduction for mathematics majors to the mathematical treatment of random phenomena occurring in the natural, physical, and social sciences. Topics covered include axioms of mathematical probability, combinatorial analysis, the binomial distribution, Poisson and normal approximation, random variables, probability distributions, generating functions, and Markov chains and their applications. Prerequisite: Grade C or better in either MATH-SHU 151 (Multivariable Calculus) or MATH-SHU 329 (Honors Analysis II), and grade C or better in either MATH-SHU 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I). Equivalency: This course counts for MATH-UA 233. Non-Shanghai students need to get the instructors' permission to enroll in classes. Fulfillment: Math required; Honors Math required; CS, CE, EE required; DS Foundational course or concentration in Math; Economics required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Computer Science Required
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Mathematics
- SB Crse Attr: NYU Shanghai: Data Science Foundational
- SB Crse Attr: NYU Shanghai: Economics Required
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course

MATH-SHU 239 Scientific Machine Learning: Mathematical Foundations and Applications (4 Credits)*Typically offered Fall*

This course is an introduction to scientific machine learning, which is a rapidly developing field at the intersection of scientific computing, machine learning (ML). In contrast with more standard applications of ML, scientific ML relies on modern numerical analysis to provide rigorous guarantees. This course will cover several numerical methods and study their mathematical foundations. It will include the following topics: (1) neural networks as function approximators, (2) deep learning methods for partial differential equations and (3) machine learning methods for optimal control problems. The exact list of topics may vary each year to reflect the development of this field. Prerequisite: MATH-SHU 140 Linear Algebra and CSCI-SHU 11 Introduction to Computer Programming. Fulfillment: Math Additional Math elective; Honors Math Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 250 Mathematics of Finance (4 Credits)*Typically offered Spring*

Introduction to the mathematics of finance. Topics: linear programming with application to pricing. Interest rates and present value. Basic probability, random walks, central limit theorem, Brownian motion, log-normal model of stock prices. Black-Scholes theory of options. Dynamic programming with application to portfolio optimization. Prerequisites: Grade C or better in either MATH-SHU 151 (Multivariable Calculus) or MATH-SHU 329 (Honors Analysis II), and grade C or better in either MATH-SHU 235 (Probability and Statistics) or MATH-SHU 238 (Honors Theory of Probability) or grade B+ or above in BUSF-SHU 101 (Statistics for Business and Economics). Fulfillment: BUSF Finance elective; BUSM Finance track; IMB Business elective; Math Additional elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Finance Elective
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 251 Introduction to Math Modeling (4 Credits)*Typically offered Fall*

Formulation and analysis of mathematical models. Mathematical tools include dimensional analysis, optimization, simulation, probability, and elementary differential equations. Applications to biology, economics, other areas of science. The necessary mathematical and scientific background is developed as needed. Students participate in formulating models as well as in analyzing them. Pre-requisites: Grade C or better in either MATH-SHU 151 (Multivariable Calculus) or 329 (Honors Analysis II), and grade C or better in either MATH-SHU 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I). Fulfillment: MATH additional elective; Honors MATH elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 252 Numerical Analysis (4 Credits)*Typically offered Spring*

In numerical analysis, one explores how mathematical problems can be analyzed and solved with a computer. This has very broad applications in mathematics, physics, engineering, finance, and the life sciences. This course gives an introduction to numerical analysis for mathematics majors. Theory and practical examples using Matlab will be combined to study a range of topics, from simple root-finding procedures to differential equations and the finite element method. Prerequisite: Grade C or better in either MATH-SHU 151 (Multivariable Calculus) or MATH-SHU 329 (Honors Analysis II), and grade C or better in either MATH-SHU 262 (Ordinary Differential Equation) or MATH-362 (Honors Ordinary Differential Equations). Fulfillment: CORE AT; Math Additional elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 262 Ordinary Differential Equations (4 Credits)*Typically offered Spring*

This course introduces the main ideas of ordinary differential equations. Topics include vector fields, existence and uniqueness of solutions to first-order linear differential equations, stability, higher order differential equations, the Laplace transform and numerical methods, linear and nonlinear systems, and Sturm-Liouville theory. Prerequisite: Grade C or better in either MATH-SHU 131 (Calculus) or MATH-SHU 201 (Honors Calculus), and grade C or better in either MATH-SHU 140 (Linear Algebra) or MATH-SHU 141 (Honors Linear Algebra I). Anti-requisite: Students who have taken MATH-SHU 362 Honors Ordinary Differential Equations are not eligible. Equivalency: This course counts for MATH-UA 262. Fulfillment: Math required course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**Antirequisites:** MATH-SHU 362.

- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course

MATH-SHU 263 Partial Differential Equations (4 Credits)*Typically offered Spring*

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 well as further applications to physics, chemistry, biology, and population dynamics. Prerequisite: Grade C or better in either MATH-SHU 262 (Ordinary Differential Equations) or MATH-SHU 362 (Honors Differential Equations), AND grade C or better in either MATH-SHU 151 (Multivariable Calculus) or MATH-SHU 329 (Honors Analysis II). Equivalency: This course counts for MATH-UA 263. Fulfillment: Math Additional Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 264 Chaos and Dynamical Systems (4 Credits)*Typically offered Spring*

Topics will include dynamics of maps and of first order and second order differential equations: stability, bifurcations, limit cycles, dissection of systems with fast and slow time scales. Geometric viewpoint, including phase planes, will be stressed. Chaotic behavior will be introduced in the context of one-variable maps (the logistic), fractal sets, etc. Applications will be drawn from physics and biology. There will be homework and projects, and a few computer lab sessions (programming experience is not a prerequisite). Prerequisite: MATH-SHU 140 Linear Algebra and MATH-SHU 151 Multi Calculus (Recommended: MATH-SHU 262 Ordinary Differential Equations) Fulfillment: Math additional elective, Honor Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 265 Linear Algebra and Differential Equation (4 Credits)*Typically offered occasionally*

This course is an introduction to linear algebra and ordinary differential equations. Topics covered include the fundamental concepts of linear algebra such as matrix theory, determinants, vector spaces, subspaces, basis, linear transformations, eigenvectors, eigenvalues and the inner product spaces, as well as the fundamental techniques of ordinary differential equations such as first order differential equations, linear differential equations (and systems). Pre-requisites: Calculus OR Honors Calculus. Anti-requisites: MATH-SHU 140, MATH-SHU 141, MATH-SHU 262, or MATH-SHU 362. Fulfillment: PHYS additional required; CE required; EE required; DS Math required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Antirequisites: MATH-SHU 140, MATH-SHU 141, MATH-SHU 262, or MATH-SHU 362.

- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Data Science Required Mathematics
- SB Crse Attr: NYU Shanghai: Electrical and Systems Engineering Required
- SB Crse Attr: NYU Shanghai: Physics Required

MATH-SHU 270 Optimal Control with Engineering Applications (4 Credits)*Typically offered occasionally*

This course provides brief introductions to optimal control for systems with known and unknown dynamics and applications to engineering. It considers deterministic and stochastic problems for both discrete and continuous systems. It covers solution methods including dynamic programming, variational calculus, and approaches based on Pontryagin's maximum principle. Examples and applications of the theory will be given in different contexts such as data assimilation, finance, and material science. Pre-req: MATH-SHU 140 Linear Algebra and MATH-SHU 151 Multivariable Calculus. Fulfillment: Math Additional Math Elective

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 282 Functions of a Complex Variable (4 Credits)*Typically offered Spring*

Complex variables and functions play an essential role in many branches of mathematics and science. In this course, we cover basic aspects of the theory, including differentiation of complex functions, the Cauchy-Riemann equations, Cauchy's theorem and integral formula, singularities, Laurent series, conformal mapping, analytic continuous, and applications to fluid flow. Prerequisite: Grade C or better in either MATH-SHU 151 (Multivariable Calculus) or MATH-SHU 329 (Honors Analysis II).

Equivalency: This course counts for MATH-UA 282. Fulfillment: Math constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 328 Honors Analysis I (4 Credits)*Typically offered Spring*

This course is a continuation of Honors Calculus. Topics covered include integration techniques, trigonometric functions, the logarithm, exponential functions, approximation by polynomials, sequences, series, convergence, uniform convergence, power series, Taylor series, complex numbers and functions, Euclidean spaces, and basic topology. Prerequisite: Grade C or better in MATH-SHU 201 (Honors Calculus), or grade A- or better in MATH-SHU 131 (Calculus) Equivalency: This course counts for MATH-UA 328. Fulfillment: Math constrained Math elective; Honors Math required; DS required Mathematics course

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Required Mathematics
- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 329 Honors Analysis II (4 Credits)*Typically offered Fall*

This course is a continuation of Analysis I, with emphasis on functions of several variables. Topics covered include the topology of Euclidean space, the Stone-Weierstrass theorem, the implicit and inverse function theorems in several variables, Jordan regions, linear transformations, differentiation of integrals, and integration of differential forms.

Prerequisite: Grade of A in [MATH-SHU 328 Honors Analysis I] OR {Grade of C or better in [MATH-SHU 328 Honors Analysis I] AND [MATH-SHU 141 Honors Linear Algebra I or (MATH-SHU 140 Linear Algebra and MATH-SHU 143 Foundations of Mathematical Methods)] } Equivalency: This course counts for MATH-UA 329. Fulfillment: Honors MATH Required, MATH Constrained Math electives, DS concentration in Math.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Mathematics
- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 339 Real Variables (4 Credits)*Typically offered Spring*

This is an introductory course on modern analysis. The topics to be discussed include: Lebesgue measure and integration, measurable functions and sets, convergence theorems, Lebesgue differentiation theorem, elements of Hilbert space and Banach space, Riesz's representation theorem, Sobolev space and its applications to partial differential equations. Prerequisite: Grade C or better in MATH-SHU 328 (Honors Analysis I) Fulfillment: Constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 345 Introduction to Stochastic Processes (4 Credits)*Typically offered Fall*

This is an introductory course in stochastic processes. Stochastic processes are widely used as modeling tools in many fields of application, including finance, physics, biology and engineering. The course will include an introduction to measure theory, the basic theory of discrete and continuous time Markov chains, branching processes, Poisson point processes Brownian motion and martingales. In the final part of the course, more advanced topics such as stochastic integrals, free fields, Markov loops and Ising model may be included as time permits and according to the background of the students. Pre-requisites: Grade B or better in either MATH-SHU 140 (Linear algebra) or MATH-SHU 141 (Honors Linear Algebra I), and grade B or better in either MATH-SHU 235 (Probability and Statistics) or MATH-SHU 238 (Honors Theory of Probability) Fulfillment: Honors Math Electives, Math Additional electives; DS Concentration in Math.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Mathematics
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 348 Honors Algebra I (4 Credits)*Typically offered Fall*

This introduction to abstract algebra is a rigorous study of groups and rings. Topics covered include symmetric and linear groups, the Sylow theorems, classification of finitely generated abelian groups, polynomial and quotient rings, ideals, principal ideal domains, unique factorization, and the Nullstellensatz. Prerequisites: Grade C or better in MATH-SHU 141 (Honors Linear Algebra I, or grade B or better in MATH-SHU 140 (Linear Algebra) Fulfillment: Math constrained Math elective; Honors Math required course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 349 Abstract Algebra I (4 Credits)*Typically offered occasionally*

This introduction to abstract algebra introduces the notions of group, ring, and field. Topics covered include symmetric and linear groups, the Sylow theorems, polynomial and quotient rings, ideals, unique factorization, the Nullstellensatz, field extensions and finite fields. Prerequisite: $\geq$ Grade C in MATH-SHU 141 Honors Linear Algebra I, or $\geq$ grade B in MATH-SHU 140 Linear algebra and $\geq$ grade C in either MATH-SHU 201 Honors Calculus or MATH-SHU 143 Foundations of Mathematical Methods, or instructor consent Fulfillment: Math Constrained Math Elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 350 Probability Limit Theorems (4 Credits)*Typically offered Fall and Spring*

The goal of this course is to introduce the main ideas of advanced probability: rigorous treatment of conditional expectation and martingales, weak convergence, strong law of large numbers, central limit theorem, convergence to infinitely divisible distributions, law of iterated logarithm, Markov Chains, stationary stochastic processes, ergodic theorems. Prerequisite: Grade C or better in MATH-SHU 328 (Honors Analysis I). Fulfillment: Math Constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 351T Mathematical Models in Biology and Finance (4 Credits)*Typically offered occasionally*

This is a two part course that will expose students to current mathematical models based on stochastic differential equations, both from the mathematical and numerical points of view. Students will learn the notion of stochastic differential equation and study different equations proposed to describe biological phenomenon and the evolution of financial markets. Students will compare different methods to integrate numerically these equations and illustrate them in some concrete applications. Prerequisite: None. Fulfillment: Math Constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 362 Honors Ordinary Differential Equations (4 Credits)*Typically offered Fall*

This course introduces the main ideas of ordinary differential equations, with a particular emphasis on proofs, in comparison with the course MATH-SHU 262. It will cover vector fields, proof of local existence and uniqueness of solutions of first-order differential equations by Picard's fixed point iteration, stability, higher order linear differential equations and their set of fundamental solutions (with proof of characterization by the Wronskian), Series Solutions of second order linear differential equations (ordinary points, proof of Fuchs Theorem, regular singular points and indicial equation), Laplace transform and numerical methods, nonlinear systems, boundary value problems. Prerequisite: Grade C or better in MATH-SHU 201 (Honors Calculus), or MATH-SHU 131 (Calculus) and MATH-SHU 143 (Foundations of Mathematical Methods), and grade C or better in either MATH-SHU 140 (Linear Algebra) or MATH-SHU 141 (honors Linear Algebra I). Fulfillment: Math Required; Honors Math Required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Required Mathematics Course
- SB Crse Attr: NYU Shanghai: Mathematics Required Mathematics Course

MATH-SHU 375 Topology (4 Credits)*Typically offered Spring*

This course presents the basic ideas of point-set topology, as well as their interactions with analysis and algebra. Topics covered include topological spaces, metric spaces, compactness, Tychonoff's theorem, separation axioms, Urysohn's lemma, covering spaces, fundamental groups, and homotopy groups. Prerequisite: Grade C or better in MATH-SHU 328 (Honors Analysis I) or MATH-SHU 151 (Multivariable Calculus). Fulfillment: Math Constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 377 Differential Geometry (4 Credits)*Typically offered Spring*

This course investigates the differential properties of curves and surfaces. Topics covered include differential manifolds and Riemannian geometry. Prerequisite: Grade C or better in MATH-SHU 329 (Honors Analysis II) or MATH-SHU 151 (Multivariable Calculus). Fulfillment: Math Constrained Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Constrained Math Elective

MATH-SHU 395 Special Topics in Math (4 Credits)*Typically offered occasionally*

Topics vary yearly. Detailed course descriptions are available during preregistration. Covers topics not offered regularly: experimental courses and courses offered on student demand. Prerequisite: None. Fulfillment: Math additional elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

MATH-SHU 997 Independent Study: Mathematics (2-4 Credits)*Typically offered Fall and Spring*

Students majoring in mathematics are permitted to work on an individual basis under the supervision of a full-time or visiting faculty member in the department if they have maintained an overall GPA of 3.0 and a GPA of 3.5 in mathematics and have a study proposal that is approved by a mathematics professor. Students are expected to spend about two to three hours a week per credit (a 4-credit IS would involve about ten to twelve hours a week) on their project. Prerequisite: None. Department consent is needed. Fulfillment: Math Additional Math elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective

Media, Culture, & Communication (MCC-SHU)

Music (MUS-SHU)

MUS-SHU 56 Piano (Private Lessons) (2 Credits)

Typically offered occasionally

For Non-Majors: Private instruction for all skill levels in the literature & techniques of playing piano. Designed to foster appreciation of music & an interest in piano repertoire, musical interpretation, & music notation. 1 year of private study; Instructor Consent (Must have either rudimentary music skills and be able to play simple pieces, two hands together or successfully completed MUS-SHU 59 Group Piano; Prior training/permission of instructor is required) Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 56.2 Piano (Private Lessons) (4 Credits)

Typically offered occasionally

For Non-Majors: Private instruction for all skill levels in the literature & techniques of playing piano. Designed to foster appreciation of music & an interest in piano repertoire, musical interpretation, & music notation. 1 year of private study; Instructor Consent (Must have either rudimentary music skills and be able to play simple pieces, two hands together or successfully completed MUS-SHU 59 Group Piano; Prior training/permission of instructor is required) Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 59 Group Piano for Beginners (2 Credits)

Typically offered Fall and Spring

This course is intended to introduce basic piano performance skills to those who had no previous training in piano or keyboard. It is designed to develop fundamental piano skills leading to further exploration of the keyboard and music. The materials and instruction are unified to encourage the development of basic piano techniques and music concepts. Prerequisite: None. Fulfillment: General Elective. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 60 Group Piano for Intermediate Beginners (2 Credits)

Typically offered Fall and Spring

This class will help students build their fundamental music skills: learning major and minor scales, music theory, analyzing basic music harmony and form, by studying and playing different piano compositions throughout history, students will acquire a basic knowledge of musical style. Prerequisite: MUS-SHU 59 Group Piano for Beginners or one-year or more prior training in piano performance. Antirequisite for MUS-SHU 60: Students who have completed MUS-SHU 62 Group Piano for Intermediate, MUS-SHU 61 Group Piano for Advanced, or MUS-SHU 63 Performance Piano are not eligible. Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

Antirequisites: Students who have completed MUS-SHU 62 Group Piano for Intermediate, MUS-SHU 61 Group Piano for Advanced, or MUS-SHU 63 Performance Piano are not eligible.

MUS-SHU 61 Group Piano for Advanced (2 Credits)

Typically offered Fall and Spring

This course will assist students in their study of advanced piano performance, through equipping and enhancing students' fundamental technical as well as musical theory proficiency via group instruction per week during the semester. Students will by means of group study and individualized practice and research, increase proficiency at the keyboard, develop performance practices, musical knowledge, pianistic methodology, artistic and stylistic interpretation of works from different era. Students must have taken MUS-SHU 62 Group Piano for Intermediate class, or demonstrate proficiency at the keyboard prior to registration. Instructor consent required. Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 62 Group Piano for Intermediate (2 Credits)

This praxis course is designed for students who have reached beyond the beginner level. Students will develop their piano playing and score-analysis skills. They will deepen their analytic and technical skills through experimenting with different types of tone quality that will enhance and enrich their musical expression, and will arm them with the ability of utilizing music theory to analyze piano playing applications. Students will read texts, study music compositions from different historical music periods and musical genres, and study experts' performances in order to consolidate their understanding. Prerequisite: MUS-SHU 60 Group Piano for Inter Beginner. Instructor consent required for students who did not take the prereq, but have 2 years previous experience. Anti-Requisite for MUS-SHU 62: Students who have completed MUS-SHU 61 Group Piano for Advanced or MUS-SHU 63 Performance Piano are not eligible. Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 63 Performance Piano (2 Credits)

Performance Piano is a course for advanced student to build performance confidence, communicating the essence of the music while demonstrating a command of the instrument. A deep understanding of the stylistic and structural elements of each repertoire selection is the main goal for the course. This is a praxis course with a seminar component. Students will ground their individual practice and repertoire with a weekly group class alternating between discussion and critique. Historical, theoretical, conceptual, and topical texts will be the focal point of discussion. Students will engage in peer critique as a way of becoming proficient in music theory language. Instructor consent required. Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 103 Bamboo Flute: Beginner (2 Credits)

Typically offered occasionally

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 105 Guqin: Beginner (2 Credits)*Typically offered occasionally*

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**MUS-SHU 150 Group Erhu: All Levels (2 Credits)***Typically offered occasionally*

Prerequisite: None. Fulfillment: General Elective. Repeat rule:

Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**MUS-SHU 151 Group Bamboo Flute: All Levels (2 Credits)**

Prerequisite: None. Fulfillment: General Elective. Repeat rule:

Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**MUS-SHU 152 Group Guqin, All Levels (2 Credits)**

This course provides hands on instruction in Guqin. Designed for all

levels of ability this course also presents elements of history and

technique, music reading and performance. Beginners to advanced

students welcome. Prerequisite: None. Fulfillment: General Elective.

Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**MUS-SHU 200 Topics in Music (2 Credits)***Typically offered Fall and Spring*

For Non-Majors. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**MUS-SHU 206 Music Composition (2 Credits)***Typically offered every year*

This course is designed for non-music majors with some prior

experience on a musical instrument and an interest in music

composition. Throughout the semester, students will learn how to

connect performance practice with music writing skills through a

progressive series of composition assignments. In classroom lectures,

students will be introduced to basic music theory and a selection of

important classical works, as well as historical background of important

composition techniques and their development. They will also receive

weekly private lessons, and chamber music coaching. The course will

culminate in a public concert where students perform their original

compositions, and chamber music from the common-practice and

contemporary classical repertoire. Prerequisite: None. Fulfillment:

General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**MUS-SHU 219 Music of Shanghai (2 Credits)***Typically offered Fall and Spring*

Centered around attending a variety of musical performances in

Shanghai, in class work will consist of lectures, readings, listening and

discussions in advance of the event as well as further discussion and

reflection afterwards. Students will work on refining critical listening

skills and a greater knowledge of music and music as an integral part of

society and in particular, Shanghai's past and present artistic community.

Genres to be chosen from: jazz, classical, indigenous, fusion, theatre

music and contemporary pop/rock. Adding CNY 500 as a one-time school

based fee to enrolled students Prerequisites: None. Fulfillment: General

Elective. Repeat rule: Non-Repeatable. Students can only take this course

once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**MUS-SHU 220 20th Century Music and Its Meanings (4 Credits)**

From Mamie Smith to Metallica, the musical soundscape of the 20th

century was one of immense change, innovation, and controversy. Jazz,

rhythm and blues, and rock music arose amid massive demographic

shifts, unprecedented wealth creation, global war, and advances in

technology that made the world more immediate than ever before. In

every genre, a burgeoning record industry turned stored sound into a

lucrative commodity that permeated society, defining and challenging

our individual and collective identities. This course examines how

20th-century music echoed and defined the social world that helped to

produce it, the function of music in that world, and its impact on that

world into the 21st century. Prerequisite: None. Fulfillment: General

Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**MUS-SHU 221 Songwriting (2 Credits)**

What's in a song? What are the qualities of an effective song, and

what features do famous songs and songwriters share? In this course,

students will learn the essential elements of songwriting—melody,

harmony, form, lyrics, and more—via analysis of existing popular music

in a variety of styles. Through popular music analysis, guided class work,

and talks with guest composers, students will engage in the songwriting

process toward presenting fully and partially realized original songs.

Prerequisite: None. Some prior experience in music is recommended;

students should contact instructor prior to registering. Fulfillment:

General Elective. Repeat rule: Non-Repeatable. Students can only take

this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**MUS-SHU 225 The Structure of Music (2 Credits)***Typically offered occasionally*

This course examines the basic components of sound (frequency,

duration, amplitude, sequence, timbre, harmony) and how they are used

as building blocks in creating recognized musical forms. By means of

oral, aural, score study and written work/composition, students will

be able to recognize these elements, how they function and are used

in simple melody through more complex larger forms such as binary,

ternary, rondo, variations, and sonata. Prerequisite: None. Prior musical

study is recommended, but not necessary. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

MUS-SHU 226 Topics in Music:Theory at The Keyboard (2 Credits)

Theory at the Keyboard allows for examining and combining musical concepts of rhythm, melody and harmony by means of using the keyboard. Students will by playing, reading and listening to explore

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 227 Into the Musicals (2 Credits)

Typically offered Fall

Musical Theatre, as a popular art form, holds a unique place in our contextual understanding of the world's culture, history, and sociology. This hybrid course is focused on Musical Theater History with optional performances to encourage students to analyze social topics revealed in various musical works throughout history. Pre-requisite: None Fulfillment: General Elective. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 260 Introduction to the History of Western Music (2 Credits)

Typically offered Fall

Introduction to the History of Western Music is a survey course designed to provide students with broad knowledge of Western music, spanning the Middle Ages through the late Romanticism. Defining forms, genres, composers, students will develop an understanding of this history as well as the contexts in which musical movements, styles, and theories occurred. Through the biographical contexts of composers and historical studies of compositions, together with a rich repertoire of Western music listening materials, students will be able to shape their constructional perception of Western music and its linkage to today's musical environment, and learn to develop critical listening and music appreciation skills. Prerequisite: None Fulfillment: General Elective. Repeat rule: Non-Repeatable. Students can only take this course once during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 1084 Theory for Vocalists (2 Credits)

Typically offered Fall

This is an applied music theory course for singers. In this course, students will develop a solid foundation in the fundamentals of music and improve their sight-singing skills. Through a sequential presentation of the basics of modern staff notation and related theoretical concepts, students will learn to identify and interpret musical symbols, and understand their relationship to rhythm, key, and basic chord structures. Students will apply these concepts through in-class individual and group singing exercises, and demonstrate their knowledge through weekly recorded aural assignments that build in complexity as the semester progresses. Prerequisite: None. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 1085.1 Choral Arts: NYU Shanghai Chorale (0 Credits)

Typically offered occasionally

For Non-Majors. The NYU Shanghai Chorale will explore all types of choral music - pop, jazz, classical etc., help you improve your singing and musicianship skills in a fun environment. Those taking for one or two credits will receive individual singing instruction outside of class at mutually convenient times throughout the semester. Sectional rehearsals may be called as needed. Prerequisite: None. Fulfillment: General Elective. Repeat rule: Students can take this course indefinitely during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1085.2 Choral Arts: NYU Shanghai Chorale (1 Credit)

Typically offered Fall and Spring

For Non-majors. The NYU Shanghai Chorale will explore all types of choral music - pop, jazz, classical etc., help you improve your singing and musicianship skills in a fun environment. Those taking for one or two credits will receive individual singing instruction outside of class at mutually convenient times throughout the semester. Sectional rehearsals may be called as needed. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1085.3 Choral Arts: NYU Shang Chorale (2 Credits)

Typically offered Fall and Spring

For Non-major. The NYU Shanghai Chorale will explore all types of choral music - pop, jazz, classical etc., help you improve your singing and musicianship skills in a fun environment. Those taking for one or two credits will receive individual singing instruction outside of class at mutually convenient times throughout the semester. Sectional rehearsals may be called as needed. Prerequisite: None. Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1085.4 Choral Arts: NYU Show Choir (0-2 Credits)

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 1086 Choral Arts: NYU A Cappella (0 Credits)

This is an advanced performance ensemble for students that read music and/ or learn music quickly. Prior solo or choral training is preferred. Instruction will take the form of group and sectional rehearsals and private instruction for those registered for credit. Students may also have the option to sing with one of the other NYU Shanghai choral classes. Prerequisite: None. Fulfillment: General Elective. Repeat rule: Students can take this course indefinitely during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1086.1 Choral Arts: NYU A Cappella (1 Credit)

This is an advanced performance ensemble for students that read music and/ or learn music quickly. Prior solo or choral training is preferred. Instruction will take the form of group and sectional rehearsals and private instruction for those registered for credit. Students may also have the option to sing with one of the other NYU Shanghai choral classes. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 1086.2 Choral Arts: NYU A Cappella (2 Credits)

This is an advanced performance ensemble for students that read music and/ or learn music quickly. Prior solo or choral training is preferred. Instruction will take the form of group and sectional rehearsals and private instruction for those registered for credit. Students may also have the option to sing with one of the other NYU Shanghai choral classes. Prerequisite: None. This class requires Instructor Consent. Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1087.1 Elite A Cappella, NYUSH Chamber Singer (0 Credits)

Typically offered all terms

NYUSH Chamber Singers is a performance-oriented class that prepares students for ensemble and solo public performance covering a wide spectrum of vocal genres. Instruction in vocal technique, sight reading, performance practices and musicianship will be included in all instructions. This course culminates in public performance(s) representing the university at events and in concert. This course also provides the students with the opportunity to perform more regularly and at community events as no accompaniment is required. This course is 0 credit. Course Requisite: By Audition Fulfillment: General Elective. Repeat rule: Students can take this course indefinitely during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1087.3 Elite A Cappella, NYUSH Chamber Singer (2 Credits)

Typically offered every year

NYUSH Chamber Singers is a performance-oriented class that prepares students for ensemble and solo public performance covering a wide spectrum of vocal genres. Instruction in vocal technique, sight reading, performance practices and musicianship will be included in all instructions. This course culminates in public performance(s) representing the university at events and in concert. This course also provides the students with the opportunity to perform more regularly and at community events as no accompaniment is required. This course is 2 credit. Course Requisite: By Audition Fulfillment: General Elective. Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1179.1 Chamber Ensemble:Orchestra (0 Credits)

Typically offered Fall and Spring

Prerequisite: None. Fulfillment: General Elective. Repeat rule: Students can take this course indefinitely during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1179.2 Chamber Ensemble:Orchestra (1 Credit)

Typically offered Fall and Spring

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1179.3 Chamber Ensemble:Orchestra (2 Credits)

Typically offered Fall and Spring

For none major. Prerequisite: None. Fulfillment: General Elective.

Repeat rule: Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1182.1 Chamber Ensemble: Jazz (0 Credits)

An instrumental ensemble focused on jazz and related popular music styles. Students taking this course for credit will receive either four 30-minute one-on-one coaching sessions (1 credit), or eight 30-minute one-on-one coaching sessions (2 credits) over the course of the semester. They will also be expected to maintain a weekly practice journal.

Prerequisite: None. Fulfillment: General Elective. Repeat rule: Students can take this course indefinitely during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1182.2 Chamber Ensemble: Jazz (1 Credit)

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 1182.3 Chamber Ensemble: Jazz (2 Credits)

Prerequisite: None. Fulfillment: General Elective. Repeat rule:

Students can take this course up to two times in total (not necessarily consecutive) for credit during their study at NYUSH.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1511 Vocal Training: Group - 2 credits (2 Credits)

Typically offered occasionally

This course introduces singing mainly in the way of practice more than theory, by means of group and individual instruction. Students will learn two to three songs, most likely pop or musical style songs in a teamwork setting per semester. The object of this course is to improve students' confidence in singing as well as free their body& mind, and most importantly, having fun singing and performing together. Students also get two field trips opportunities to watch two free shows at the best theater in Shanghai. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

MUS-SHU 1512 Solo Voice Instruction (2 Credits)

Typically offered occasionally

Students will receive personalized singing instruction in a studio setting, focusing on vocal function and its practical application. Repertoire will be thoughtfully assigned to suit each student's needs. Emphasizing singing as a powerful tool for communication, students will be encouraged to explore its role in conveying text and storytelling. At the end of each semester, all students will have the opportunity to showcase their progress through performance. Prerequisite: Prior training. By audition. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

MUS-SHU 1514 Private Voice Instruction (4 Credits)

Typically offered occasionally

For none major. Students will receive individual singing instruction in a studio setting. Vocal function and its application will be discussed and repertoire assigned accordingly. Students are encouraged to explore singing as a communicative tool in delivering text and story telling. Prior training/permission of instructor required; contact jw2453@nyu.edu

Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: Yes

Neural Science (NEUR-SHU)

NEUR-SHU 10 Free Will and the Brain (4 Credits)

Typically offered occasionally

The concept of free will plays a central role in society, in particular in the criminal justice system. In this course, we will explore the concept of free will and related topics in neuroscience such as intention and self-control. We will cover the evidence from neuroscience that argues that behavior is, under normal conditions, not deterministic, thus providing a material basis for the concept of individual agency. We will then address the neuroscience evidence for cases where individual agency is reduced through external influence via learning and the reward and punishment systems. Finally, we will examine the most extreme cases of this, psychiatric disorders that reduce agency: addiction, compulsive disorders, and anxiety disorders. Prerequisite: Not open to freshman. Fulfillment: CORE STS; Neural Science elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

NEUR-SHU 100 Math Tools for Life Sciences (4 Credits)

Typically offered Spring

This course will provide a broad introduction to basic mathematical and statistical tools for a quantitative analysis in the life sciences. It will cover a broad range of topics, including introduction to linear algebra, probability, linear regression, and statistical tests. We will use the mathematical programming language MATLAB for in-class demonstrations, computer lab during recitations and homework assignments. Prerequisite: Foundations of Biology I or Foundations of Biology II Fulfillment: Biology required; Neural Science required.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Biology Required
- SB Crse Attr: NYU Shanghai: Neural Science Required

NEUR-SHU 130 Introduction to Linguistics: The Science of Human Language (4 Credits)

Typically offered every year

This is an introductory survey course to linguistics – the science of language. During this semester, we will address humans' language competence (e.g., is our language ability a learned behavior or rather an instinct? What do native speakers of a specific language implicitly know about word structure, sentence structure, sentence meaning, pronunciation? Etc.) and humans language performance in social context (e.g., why and how does language evolve in a society? How does language reflect our identity? Etc.). This course will approach these issues by incorporating theoretical and experimental works from (neuro)psychological, philosophical, mathematical/computational, and sociological/cultural perspectives. The course aims to help students understand multiple facets of language ability (a crucial cognitive function that defines who we are as humans – both in terms of intelligent individuals and a social species) and appreciate linguistic diversity. It will also show how linguists work towards a better scientific understanding of our language ability. Prerequisite: None. Fulfillment: CORE STS; Neural Science Electives.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

NEUR-SHU 131 Neural Bases of Speech and Language (4 Credits)

Typically offered occasionally

How does our brain work to enable us to speak and understand language? Are there special parts of the brain dedicated to speech and language? What is it like to be abnormal at speech or lose language? This course provides an introduction of the neuroscience research of speech and language, and interdisciplinary field at the heart of human cognitive neuroscience. Lectures cover basic aspects of language processing in the healthy brain, ranging from early sensory perception to higher level semantic interpretation, as well as a range of neurological and development language disorders, including aphasia, dyslexia, and other speech and language impairment. Functional neuroimaging and electrophysiological techniques will be introduced. The goal of this course is to let students acquire basic knowledge of neurolinguistics, as well as familiarise the ideas of interdisciplinary research in the intersection of cognitive science and neuroscience. Prereqs: None. Fulfillment: CORE STS; Neural Science Approved upper-level Psychology courses; Neural Science Electives; Social Science Focus Courses Psychology - 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Neural Science Approved upper-level Psychology Crs
- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

NEUR-SHU 132 Meaning (4 Credits)*Typically offered every year*

This course is about a supreme aspect of the human race: seeking and creating meaning. The central topic of this course is how humans use language to encode meaning, create meaning, interpret meaning, do with meaning, and reflect on meaning, and then how humans' meaning-related activities go beyond language. We will study how philosophers and linguists approach this topic, introducing influential ideas on language and meaning. We will also study how various kinds of media, from pictures and comics to computer programs, provide new ways of encoding and interpreting meaning as well as new perspectives on studying meaning. Prerequisite: None. Fulfillment: Core STS; Neural Science elective; Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

NEUR-SHU 133 Speech, from hearing to voicing (4 Credits)*Typically offered every year*

Speech, or spoken language, is one of the few basic abilities that set us apart from other animals including our closest primate cousins. Yet, the use of acoustic signals for communication is widespread across a variety of species, from songbirds to primates, orcas, dolphins, and more. Understanding the subject of speech requires knowledge across multiple disciplines including acoustics, anatomy, physiology, cognitive psychology, neuroscience, and linguistics. Moreover, exploring the evolution of vocal communication across animal species yields broader insights into every facet of human speech. This course is an introduction to these topics and explains how events within these domains interact to bring about communication by speech. Prerequisite: None Fulfillment: Neural Science elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Elective

NEUR-SHU 201 Introduction to Neural Science (4 Credits)*Typically offered Fall*

Introductory lecture course covering the fundamental principles of neuroscience. Topics include principles of brain organization, structure and ultrastructure. Introductory lecture course covering the fundamental principles of neuroscience. Topics include principles of brain organization, structure and ultrastructure of neurons, neurophysiology and biophysics of excitable cells, synaptic transmission, neurotransmitter systems and neurochemistry, neuropharmacology, neuroendocrine relations, molecular biology of neurons, development and plasticity of the brain, aging and diseases of the nervous system, organization of sensory and motor systems, structure and function of the cerebral cortex, and modeling of neural systems. Prerequisite: BIOL-SHU 21 Foundations of Biology I and BIOL-SHU 22 Foundations of Biology II (could be co-req). Fulfillment: Biology Electives; Neural Science Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Neural Science Required

NEUR-SHU 210 Cellular and Molecular Neuroscience (4 Credits)*Typically offered occasionally*

A lecture course that provides students with broad exposure to current questions and experimental approaches in cellular neuroscience. Lectures are organized into three areas: cell structure and organization of the vertebrate central nervous system, mechanisms underlying neural signaling and plasticity, and control of cell form and its developmental determinants. . Prerequisites: NEUR-SHU 201 Introduction to Neural Science AND [PHYS-SHU 11 General Physics I or PHYS-SHU 91 Foundations of Physics I Honors]. Fulfillment: Neural Science Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Required

NEUR-SHU 222 Perception (4 Credits)*Typically offered occasionally*

How do humans and other animals obtain knowledge about the world? It is easy to take perception for granted, but complex processes (only partly understood) underlie our ability to understand the world by seeing, hearing, feeling, tasting, and smelling it. Perception has fascinated philosophers, physicists, and physiologists for centuries. Currently, perception is a central topic not only in neuroscience, but also in psychology, cognitive science, and computer science. How do scientists approach perception? We seek to discover lawful relations between perceptual experiences and the physical world and to develop models of the processes and mechanisms that produce these connections. To accomplish this, we need accounts of the information, the computational processes, and the neural mechanisms involved in perception. In this course, we will discuss fundamental problems in perception (primarily vision), and learn about techniques that are applied in attempts to solve these problems. The learning outcomes of this course include a better understanding of human perception and critical thinking skills for the analysis and interpretation of the related research reports. Prerequisite: NEUR-SHU 201 Introduction to Neural Science OR PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Biology Electives; Neural Science Approved upper-level Psychology courses; Neural Science Electives; Social Science Focus Courses Psychology - 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Elective
- SB Crse Attr: NYU Shanghai: Neural Science Approved upper-level Psychology Crs
- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

NEUR-SHU 251 Behavioral and Integrative Neuroscience (4 Credits)*Typically offered Spring*

This lecture and laboratory course addresses the physiological and anatomical bases of behavior. Lectures and laboratory experiments will emphasize mammalian sensory, motor, regulatory, and motivational mechanisms involved in the control of behavior, and higher mental processes such as those involved in language and memory. Co-requisite/Pre-requisite: NEUR-SHU 201. Fulfillment: Neural Science required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Required

NEUR-SHU 261 Neurobiology of Decision Making (4 Credits)*Typically offered occasionally*

This special topics course will review recent research that combines psychological, economic, and neurobiological approaches to study human and animal decision-making. The course will focus on our current understanding regarding the neural underpinnings of decision-making, and how evidence concerning the neural processes associated with choices might be used to advance economic and psychological theories of decision-making. Topics covered include valuation, value learning, perceptual and value-based decisions. Prerequisite or Co-requisite: NEUR-SHU 201 Introduction to Neural Science. Fulfillment: Neural Science elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Elective

NEUR-SHU 270 Introduction to Theoretical Neuroscience (4 Credits)*Typically offered Fall*

This course introduces students in neuroscience and mathematics to theoretical studies of neural systems. The course material is models of the nervous system at many different levels, including the biophysical, the circuit and the systems levels for biological sensing, motor control, perception, and learning. We will follow the classic textbook, "Theoretical neuroscience" by Dayan and Abbott. This broad introduction of topics in computational neuroscience aims to provide initial guidance for students to choose the computational approach to describe and analyze the data. The students will be encouraged to read the references and utilize the online materials before the lectures so that the students can participate in the discussion during the class. Mathematical tools in probability and differential equations and programming in Matlab will be introduced as needed within the course. Prerequisite: Undergraduates: Mathematical Tools for Life Sciences (NEUR-SHU 100) or MATH-SHU 235 (Probability and Statistics), or MATH-SHU 238 (Honors Theory of Probability). Graduates: Mathematical Tools for Neural and Cognitive Science (NEURL-GA.2201). Fulfillment: Neural Science Electives.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Neural Science Elective

NEUR-SHU 301 Action and Cognition (4 Credits)*Typically offered every year*

We need to interact with people and the environment efficiently to survive, evolve, and create a better future. Action is a crucial process in this fundamental interaction. Recent advances in cognitive science and cognitive neuroscience emphasize the functions of action and its relations to cognition. The aims of the course are to provide students with a broad understanding of the foundations as well as cutting-edge advances on the topic of the relation between action and cognition. We will focus on the research that has led to those theories, as well as experimental approaches that derive and support these hypotheses. In doing so, students will also learn about the goals as well as the scientific procedures of behavioral and cognitive neuroscience research and the methods that are being employed to reach these goals. Prerequisite: Introduction to Neuroscience AND Behavioral and Integrative Neuroscience Fulfillment: Neural Science Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Elective

NEUR-SHU 305 Special Topics: The Meaning of Natural Language (4 Credits)*Typically offered Fall*

Perspectives from Linguistics, Cognitive Neuroscience, and Computer Science: Humans are animals of meaning. Among all kinds of interpretive activities – from recognizing bird songs and dog barks to appreciating impressionist artwork, the most human-specific is the use of language: with a limited number of symbols, humans can encode and convey an unlimited number of ideas with varying complexities, from concrete entities as simple as red boat to hypothesized models as intricate as artificial neural networks. How do we describe and analyze natural language meaning? How does our brain support the processing of natural language meaning? How can we make machines understand natural language meaning? This course seeks to provide a general introduction to current research on (the representation and/or processing of) natural language meaning, drawing on and bridging three different disciplines: formal linguistics, cognitive neuroscience, and computer science. Lectures cover (i) the modeling of natural language meaning in formal linguistics, (ii) hypothesized brain mechanisms underlying the processing of natural language meaning, (iii) main computational techniques that perform natural language understanding tasks, (iv) and cutting-edge research on bringing together interdisciplinary views. Pre-requisites: Students are expected to have taken core courses in the first two years of NYU shanghai curriculum, including Introduction to Neuroscience. Otherwise, students should first ask for the instructor's permission. Fulfillment: Neural Science elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Elective

NEUR-SHU 401 Neural Science Honors Seminar (4 Credits)*Typically offered Spring*

Open only to students qualified and having been recommended by the Director of Neural Science program. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

NEUR-SHU 997 Independent Study I - Neural Science Capstone (4 Credits)*Typically offered Fall and Spring*

Prerequisite: All Neural Science Major Required Courses (Introduction to Neural Science, Cellular and Molecular Neuroscience, Behavioral and Integrative Neuroscience, Math Tools for Behavioral Science), permission of a neural science faculty member (at NYU-Shanghai, NYU-Abu Dhabi, or NYU-New York) who will act as a sponsor and mentor, and approval of the Director of Undergraduate Studies for Neural Science. The faculty mentor must be selected in consultation with the Director of Undergraduate Studies for Neural Science. Offered in Fall or Spring. Can be repeated once. 2 to 4 credits per term for a maximum of 8 credits. Minimum 4 credits are required to fulfill the capstone course requirement. This course aims at engaging students in research. Taking the course for 4 credits requires 10-12 hours spent on conducting research per week (2 credits requires 5-6 hours per week). It is designed to offer students an opportunity to observe neuroscience research up close and gain hands-on research experience by working as a member in an active research team. Independent Study I and II can be done with the same supervisor or two different supervisors. No lectures will be given. Student researchers are expected to attend and actively participate in lab/supervision meetings. Prerequisite: None. Fulfillment: Neural Science Required Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Neural Science Required

NEUR-SHU 998 Independent Study II - Neural Science (2-4 Credits)

Prerequisite: All Neural Science Major Required Courses (Introduction to Neural Science, Cellular and Molecular Neuroscience, Behavioral and Integrative Neuroscience, Math Tools for Behavioral Science), permission of a neural science faculty member (at NYU-Shanghai, NYU-Abu Dhabi, or NYU-New York) who will act as a sponsor and mentor, and approval of the Director of Undergraduate Studies for Neural Science. The faculty mentor must be selected in consultation with the Director of Undergraduate Studies for Neural Science. Offered in Fall or Spring. Can be repeated once. 2 to 4 credits per term for a maximum of 8 credits. Minimum 4 credits are required to fulfill the capstone course requirement. This course aims at engaging students in research. Taking the course for 4 credits requires 10-12 hours spent on conducting research per week (2 credits requires 5-6 hours per week). It is designed to offer students an opportunity to observe neuroscience research up close and gain hands-on research experience by working as a member in an active research team. Independent Study I and II can be done with the same supervisor or two different supervisors. No lectures will be given. Student researchers are expected to attend and actively participate in lab/supervision meetings. Prerequisite: None. Fulfillment: Neural Science Required Courses/ Electives.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Neural Science Required

NYU Shanghai (NYU-SHU)

NYU-SHU 101 Approaching China (1 Credit)

This course exposes students to multiple perspectives on China. Scholars in diverse disciplines share their expertise and experiences on topics related to China's history, society, economy, and culture.

Grading: Ugrd Shanghai Pass/Fail**Repeatable for additional credit:** Yes**NYU-SHU 102 Transitions: What's Next? (1 Credit)**

Artists, entrepreneurs, activists, scientists and community leaders have responded to uncertain futures, turning points, and challenges in innovative ways. This course will use comparative global case studies to explore the personal character and social clarity that is built by adversity, analyzing how unprecedented conditions foster new paradigms. Guest speakers will offer insight into key turning points and contemporary challenges, and students will apply developing skills to addressing a problem they identify in the current moment of transition.

Grading: Ugrd Shanghai Pass/Fail**Repeatable for additional credit:** No

Philosophy (PHIL-SHU)

PHIL-SHU 70 Logic (4 Credits)*Typically offered occasionally*

This is an introductory course in formal logic. No prior knowledge of logic, mathematics or philosophy will be assumed. We will study a number of logical systems, and learn some methods for producing derivations and determining validity in these systems. We will also learn how to translate sentences and arguments from ordinary language into these systems, and examine some applications of logic to traditional philosophical problems. Prerequisite: None. Fulfillment: CORE AT; Humanities Introductory Courses (18-19 Survey Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 80 Philosophy of Mind (4 Credits)*Typically offered Spring term of odd numbered years*

Examination of the relationship between the mind and the brain, of the nature of the mental, and of personal identity. Can consciousness be reconciled with a scientific view of the world? Prereq: None. Fulfillment: Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 90 Philosophy of Science (4 Credits)*Typically offered occasionally*

This is a survey course in general philosophy of science. Our topics include: Is scientific knowledge different from other forms of knowledge? Should the history of science be seen as an ever-increasing advance of knowledge? Given that most scientific theories have turned out to be false, are we justified in believing that our current theories are true? What are scientific explanations, and what makes an explanation better than another? Do the laws of nature govern the world or simply encapsulate some interesting patterns in the world? What is the relationship between more and less fundamental scientific theories? We will examine these questions through readings drawn from both the history and philosophy of science. Prerequisites: GPS or Sophomore standing. Fulfillment: CORE STS; Humanities Interdisciplinary/Advanced course (18-19: Critical Concepts/Topic)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

PHIL-SHU 91 Philosophy of Biology (4 Credits)*Typically offered Spring term of even numbered years*

This class is an introduction to philosophy of biology focussing on issues connected with the nature and scope of biological explanations. How much does natural selection explain about evolution, and how does it explain? How much do genes explain about development, and how do they explain? No prior philosophy of science or biology will be assumed. Prerequisite: None. Fulfillment: CORE STS; Humanities Interdisciplinary/Advanced course (18-19:Topic)

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

PHIL-SHU 101 What is Philosophy? (4 Credits)*Typically offered Fall*

This course is an introduction to the problems and methods of contemporary philosophy. Topics fall into the core subfields of philosophy, including metaphysics, epistemology, and ethics, and may include: What makes the baby you and the 80-year-old you the same person? What is the relationship between mind and body? Can we act freely if the laws of nature determine everything we do? Do we really know we are not a brain in a vat, where intricate neural processes cause reality-like experiences? Do the different moral codes across cultures prove that there is no objective morality? Would you still behave morally if you were to have a magic ring that gives you unlimited power? Prerequisite: None. Fulfillment: Humanities Foundational/Introductory Courses (18-19: Critical Concepts).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Introductory Course - Foundations Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 103 Topics in Metaphysics and Epistemology (4 Credits)*Typically offered occasionally*

This course will cover selected topics in the metaphysics and epistemology of mathematics and modality, including but not limited to: set theory and infinity; the analytic, the a priori and the necessary; possible worlds and counterfactuals. Prerequisite: None. Fulfillment: Humanities 18-19 Topic.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**PHIL-SHU 105 Introduction to Chinese Philosophy (4 Credits)***Typically offered occasionally*

This course is an introduction to classical Chinese philosophy. We will focus on three major philosophy traditions in the pre-Qin period China: Confucianism, Mohism, and Daoism. Many of the ideas in these three traditions have shaped the last two thousand years of Chinese—and to a large extent, Eastern Asian—culture. We will read primary texts as well as some secondary literature. The primary texts include: The Analects, Mengzi, and Xunzi from the Confucian tradition, Mozi from the Mohist tradition, and The Daodejing and Zhuangzi from the Daoist tradition. We will discuss issues in ethics, political philosophy, epistemology, and metaphysics in classical Chinese philosophy. We will also discuss the relevance of classical Chinese philosophy to contemporary philosophy and psychology. Pre-requisites: None Fulfillment: CORE HPC or IPC; GCS Chinese History, Society, and Culture; Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China

PHIL-SHU 106 Ancient Greek and Roman Philosophy (4 Credits)*Typically offered occasionally*

What is the basic structure of reality? What makes a life good? Why should we be just, when being unjust can be so profitable? What is knowledge and how is it acquired? This course investigates philosophical works of the Presocratics, Plato, Aristotle, Stoics, Epicureans, and Pyrrhonian Skeptics. We will explore their answers to these and other questions concerning reality, knowledge, the natural world, and the good life. Prerequisite: None. Fulfillment: Humanities Introductory course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 107 Great Works in Philosophy (4 Credits)*Typically offered Spring*

This class centers on close reading and discussion of classic philosophical texts. In this course, we will start with the ancient Greek philosophers whose work shaped the debate in European and Middle Eastern philosophy for millennia, and which has come to influence, in some way or another, nearly all contemporary philosophy. We will read some shorter Dialogues by Plato as well as the entirety of Plato's Republic. We'll then read Aristotle's Categories and de Anima (or "on the Soul"), and then the work of the Medieval Islamic philosopher, Ibn Sina, working in the Aristotelian tradition. After that, we'll see how these debates developed over time and were reflected in Descartes' Meditations on First Philosophy, David Hume's Enquiry into Human Understanding, and Immanuel Kant's Prolegomena to Any Future Metaphysics. Prerequisite: None. Fulfillment: Humanities: New Major Introductory course; Old Major Survey

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 110 Traditional Chinese Political and Legal Philosophy (4 Credits)*Typically offered occasionally*

China in the so-called pre-Qin period (770 B.C.E.-221 B.C.E.) experienced a profound political transition. Competing schools of political philosophers offered proposals to restore order, which would lay the foundations of the political and legal framework for traditional China in the next 2,000 years. The so-called "Legalists" were advocates of the rule of law, although critics claim that they were actually advocates of the rule by law. Early Confucians criticized the Legalist approach and proposed the rule of virtue, although this proposal has often been blamed for the lack of the spirit of law in traditional and contemporary China. Both schools advocated an equality-based meritocracy, but they differed on what should be considered merits. In this course, we will examine some primary texts by the Legalist philosopher Han Fei Zi and some early Confucians (mostly Confucius and Mencius) in order to understand their general legal and political philosophy. We will also investigate how they treated particular legal issues such as the conflict between the interest of society and the interest of the law, laws of international relations, etc. To help us understand the implications and the influences of these philosophical ideas, we will also look into some real legal codes and legal judgments in traditional China. Through these studies, I hope that not only can we understand the legal philosophies of these thinkers and how they influenced traditional Chinese legal practices, but also see their relative merits and shortcomings to each other and to Western legal ideas. Prerequisite: GPS or Sophomore standing. Fulfillment: Core Curriculum SSPC/ HPC or IPC; GCS Elective Chinese History, Society, and Culture; Humanities Major Other Advanced Courses (18-19 Topic Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

PHIL-SHU 115 Ethics and Society (4 Credits)*Typically offered occasionally*

This class introduces students to the methods of contemporary analytic philosophy through the study of selected moral, social, and political topics. Our focus will be on political authority, social justice, legitimacy, and justifiable resistance in the face of injustice. We will consider questions as follows: What justifies the existence of civil government? What are the key elements of social justice? Do we have a duty to obey the law, and if so, what is the source of that duty? Does the duty extend to unjust laws? When we protest against unjust laws, must we always act civilly or peacefully, or can uncivil protest, and even rioting, be morally justified? Prerequisite: None. Fulfillment: Humanities Major Introductory requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 130 Philosophy of Technology: Thinking Machines (4 Credits)*Typically offered Spring*

This course aims to train students to think philosophically about our rapidly changing—and ever more intimate—relationship with machines. We focus in particular on the following subjects: artificial intelligence, robots, cyborgs, automation and science fiction speculation. Prerequisite: Global Perspectives on Society (GPS) or Sophomore standing Fulfillment: CORE STS; Humanities Interdisciplinary or Advanced course; IMA elective; IMA major IMA/IMA elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMA Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

PHIL-SHU 200 Topics in Epistemology: (4 Credits)*Typically offered occasionally*

Epistemology is the study of knowledge: What is it, how do we acquire it, and how do social factors shape it? What does it mean to justify a belief, and how does justification relate to knowledge? This introductory course examines such questions through epistemology's major theories and debates, offering insights into the nature and norms of knowledge. The course will be of interest to students curious about live, foundational issues in philosophy. Prerequisite: None. Fulfillment: Humanities 18-19 Topic.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

PHIL-SHU 201 Pragmatic Turn in Epistemology (4 Credits)*Typically offered occasionally*

Course Description: Unsatisfied with the narrowness of the prevailing conception of knowledge which is focused on propositional knowledge, i.e., knowledge as justified true belief (JTB), this course, by drawing on the intellectual resources from the pragmatist tradition, the Polanyian tradition, the Wittgensteinian tradition, and the phenomenological tradition in philosophy, and from the latest developments in cognitive science, will argue for a pragmatic turn in epistemology. By installing action/practice at the core of knowledge, the pragmatic turn will put knowledge by acquaintance and knowing how, two basic forms of tacit knowledge, at the center stage, and will work out a much richer picture of human knowledge that speaks to people in real life. We will read texts by authors in the aforementioned philosophical traditions and in cognitive science, and will encourage students to engage in the current debates on knowing how, tacit knowledge, etc. Prerequisites: GPS or Sophomore standing.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**PHIL-SHU 204 Metaphysics and Epistemology: Perception (4 Credits)***Typically offered occasionally*

Compare a sighted person with a blindsighted person, who has no experience of a visual stimulus, but nevertheless registers its presence in unconscious processing. Does the sighted person have more justification for believing that a visual stimulus is present? Compare a visual experience with a visual imagining. Does the visual experience have a distinctive kind of phenomenal character? If so, does such phenomenal character help explain how the experience justify beliefs? In this course, we will survey a few features of perceptual experiences that might explain their ability to justify beliefs, including phenomenal character, content, and etiology. We will also consider the epistemological significance of a range of perceptual phenomena, such as cognitive penetration and perceptual learning. Prerequisite: Writing as Inquiry or Sophomore standing. Fulfillment: Humanities Advanced course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

PHIL-SHU 205 Metaphysics (4 Credits)*Typically offered occasionally*

Kids think Santa Claus is real, but we know he's not. Some people think that God is real, others do not. But what do we mean when we say that something is real? What is it for something to be? These are the foundational questions of metaphysics. In this class, we will look at philosophers who have theories of what it is for something to be real, as well as philosophers who think that the word "real" itself is devoid of meaning. We will then look at some classic debates about what reality consists in. Does reality include numbers, properties, and other such abstractions? Can reality change? Can things really persist over time? This is philosophy, so extra focus will be given to the rigorous reconstruction and evaluation of arguments. Prerequisite: GPS or Sophomore standing. Fulfillment: Humanities Advanced elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

PHIL-SHU 206 Epistemology and Perception (4 Credits)*Typically offered occasionally*

Compare a sighted person with a blindsighted person, who has no experience of a visual stimulus, but nevertheless registers its presence in unconscious processing. Does the sighted person have more justification for believing that a visual stimulus is present? Compare a visual experience with a visual imagining. Does the visual experience have a distinctive kind of phenomenal character? If so, does such phenomenal character help explain how the experience justify beliefs? In this course, we will survey a few features of perceptual experiences that might explain their ability to justify beliefs, including phenomenal character, content, and etiology. We will also consider the epistemological significance of a range of perceptual phenomena, such as cognitive penetration and perceptual learning. Prerequisite: You must have completed at least one introductory course in philosophy. Fulfillment: Humanities Advanced elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

PHIL-SHU 220 Philosophy of Law (4 Credits)*Typically offered occasionally*

Law is present in almost every aspect of our lives. It requires us to stop at the red light and pay taxes. It empowers us to acquire properties, make binding contracts, form political associations, and vote for our representatives. On what basis does law claim this ubiquitous authority to structure our lives? What principles should inform the content of law? The class is divided into two units. In the first unit, we will look into the philosophical foundations of prominent branches of private laws, including property, contract, and tort laws. In the second unit, we will look into critical principles that constitute the backbones of public laws, including constitutional, criminal, and immigration laws. Prerequisite: GPS or Sophomore standing. Fulfillment: Humanities Introductory course (18-19 Survey course).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course

PHIL-SHU 230 Philosophy of Physics (4 Credits)*Typically offered occasionally*

Physics is the study of matter in motion. This course concerns the theories and properties of matter in modern physics, and examines their physical and philosophical foundations. Of these, the dominant account, and the physical theory with the most experimental support in history, is the theory known as quantum mechanics. The course will also touch on other issues pertaining to the nature of matter in modern physics. These may include (depending on student interest, time constraints, and fit with other units): Relations between quantum mechanics and the theories of special and general relativity. More contemporary debate about the ontology of the quantum mechanical wave function. Theories of atomism and gunk, and their physical upshots. Theories about the nature of physical properties, including dispositions and physical magnitudes. Prerequisite: Global Perspectives on Society (GPS) or Sophomore standing. Fulfillment: CORE STS; Humanities Advanced Courses (18-19 Topic Courses).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Science, Technology and Society

PHIL-SHU 255 Habermas and Chinese Modernity (4 Credits)*Typically offered occasionally*

While Jürgen Habermas is a German thinker well-known for his philosophical defense of modernity as “an unfinished project”, China has surprised the world with its dramatic developments and ambiguous potentials. Reading Habermas in the context of China could hopefully lead both to a clear understanding of modernity and to a solid preparation for further studies on related topics. The main body of the course includes 5 sections, respectively focusing on value rationality and instrumental rationality, democracy and science, capitalism and socialism, universalism and particularism, and the national and the international. In each section students are introduced to a particular problem at issue, are shown how it was discussed in China and how it was addressed by Habermas, and are encouraged to present and argue for their own ideas on it. Prerequisite: None. Fulfillment: Humanities Advanced Courses (18-19 Topic Courses); The Politics, Economy, and Environment of China.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

PHIL-SHU 300 Kant (4 Credits)*Typically offered Fall*

The goal of Kant's Critique of Pure Reason is to give an account of human knowledge and its limits. This requires a careful analysis of the structure of human experience, the foundations of scientific knowledge, and the ways in which we try (and often fail) to extend our knowledge beyond what experience can teach us. This course will involve a close reading of the entirety of the Critique of Pure Reason. Along the way, we will discuss topics including the nature of matter and mind, free will, and the existence of God. Prerequisite: One prior philosophy course Fulfillment: Humanities Advanced Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course

Physics (PHYS-SHU)

PHYS-SHU 11 General Physics I (3 Credits)*Typically offered Fall*

This is an introductory physics course covering primarily mechanics and thermodynamics. The mechanics component will cover Motion along a Straight Line, Motion in Two and Three Dimensions, Newton's laws of motion, Forces, Kinetic Energy and Work, Potential Energy and Conservation of Energy, Center of Mass and Linear Momentum. The thermodynamics component will cover Temperature, Heat, and the First Law of Thermodynamics, The Kinetic Theory of Gases, Entropy and the Second Law of Thermodynamics. In addition, some introduction to the foundations of physics such as vectors and measurement will be given. In addition to the course material, the students will do open-ended research projects that encourage creative applications of physics concepts. Pre-req OR Co-req: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus. Anti-Requisite: Students who have taken PHYS-SHU 91 Physics I Honors with grade of C or above are not eligible. Fulfillment: CORE ED; Biology Foundational Courses; Chemistry Foundational Courses; Mathematics Science Lecture sections; Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Physics Foundational Courses; Computer Systems Engineering Prerequisite Science; Electrical Systems Engineering Prerequisite Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Core Sci Requirement
- SB Crse Attr: NYU Shanghai: Electrical Systems Engineering Core Science Req
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

PHYS-SHU 12 General Physics II (3 Credits)*Typically offered Spring*

This course is an introduction to electricity and magnetism, light, geometrical and wave optics. Many concepts from General Physics I will be used in this course such as velocity, acceleration, force, Newton's laws of motion, work and energy. The course uses high school algebra, geometry and trigonometry, vectors and vector arithmetic, and some basic calculus. The algebra, geometry, and trig are essential. The course has lecture, homework and laboratory components. Prerequisite: General Physics I (PHYS-SHU 11). Anti-Requisite: Students who have taken PHYS-SHU 93 Physics II Honors with grade of C or above are not eligible. Fulfillment: Biology Foundational Courses; Chemistry Foundational Courses; Mathematics Science Lecture sections; Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Computer Systems Engineering Prerequisite Science; Electrical Systems Engineering Prerequisite Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Core Sci Requirement
- SB Crse Attr: NYU Shanghai: Electrical Systems Engineering Core Science Req
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course

PHYS-SHU 71 Foundations of Physics Lab I (2 Credits)*Typically offered Fall*

This laboratory course is to accompany FoS physics lecture. Students will be familiarized with various techniques, equipment, data analysis skills, and ideas common to physics laboratories. Experiments in mechanics and thermodynamics are chosen to illustrate the experimental foundation of physics presented in the lecture courses. The laboratory will also emphasize scientific writing. Pre-req OR Co-req: General Physics I OR Found of Physics Honors I Fulfillment: CORE ED; Biology Foundational Courses; Chemistry Foundational Courses; Mathematics Science Lab sections; Honors Mathematics Science Lab sections; Neural Science Foundational Courses; Physics Foundational Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

PHYS-SHU 91 Foundations of Physics I Honors (3 Credits)*Typically offered Fall*

Measurement, Motion Along a Straight Line, Vectors, Motion in Two and Three Dimensions, Force and Motion, Kinetic Energy and Work, Potential Energy and Conservation of Energy, Center of Mass and Linear Momentum, Torque and Angular Momentum, Rotation and Rigid-Body Motion, Gravitation, Equilibrium, Stability, Elasticity, Oscillations and Harmonic Motion, Special Relativity. Textbook: Young and Freedman, Sears and Zemansky's University Physics with Modern Physics, 14th Edition. Additional (optional) reading: Halliday, Resnick & Walker, Fundamentals of Physics, Extended, 10th edition. R. P. Feynman, R. B. Leighton, & M. Sands, The Feynman Lectures on Physics, Vol. 1. Pre-req OR Co-req: MATH-SHU 131 Calculus or MATH-SHU 201 Honors Calculus. Anti-Requisite: PHYS-SHU 11 General Physics. Fulfillment: CORE ED; Biology Foundational Courses; Chemistry Foundational Courses; Mathematics Science Lecture sections; Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Physics Foundational Courses; Computer Systems Engineering Prerequisite Science; Electrical Systems Engineering Prerequisite Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Antirequisites: Students who have taken PHYS-SHU 11 General Physics I are not eligible.

- SB Crse Attr: NYU Shanghai: Biology Foundation
- SB Crse Attr: NYU Shanghai: Chemistry Foundational
- SB Crse Attr: NYU Shanghai: Computer Systems Engineering Core Sci Requirement
- SB Crse Attr: NYU Shanghai: Electrical Systems Engineering Core Science Req
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr: NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr: NYU Shanghai: Physics Foundational Course

PHYS-SHU 93 Foundations of Physics II Honors (3 Credits)*Typically offered Spring*

Continuation of Foundation of Physics I. Topics include electric charge and electric field, electric potential, Gauss's law, capacitor, current, circuits, magnetic fields, induction, electromagnetic waves, and Maxwell's equations (in an integral form). This is the second semester of a four-semester calculus-based introduction to Physics, and is intended for physics majors and other interested students. Prerequisite: Foundation of Physics I Honors (PHYS-SHU 91), Freshman Math (including linear algebra, vectors, linear vector spaces and matrices, functions of several variables, partial derivatives, multiple integrals) Textbook: Young and Freedman, Sears and Zemansky's University Physics with Modern Physics, 14th Edition. Prerequisite: (MATH-SHU 121 or MATH-SHU 201) and PHYS-SHU 91 Anti-Requisite: PHYS-SHU 12 General Physics II. Fulfillment: Biology Foundational Courses; Chemistry Foundational Courses; Mathematics Science Lecture sections; Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Physics Foundational Courses; Computer Systems Engineering Prerequisite Science; Electrical Systems Engineering Prerequisite Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Foundation
- SB Crse Attr. NYU Shanghai: Chemistry Foundational
- SB Crse Attr. NYU Shanghai: Computer Systems Engineering Core Sci Requirement
- SB Crse Attr. NYU Shanghai: Electrical Systems Engineering Core Science Req
- SB Crse Attr. NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr. NYU Shanghai: Physics Foundational Course

PHYS-SHU 94 Foundations of Physics Lab II (2 Credits)*Typically offered Spring*

This laboratory course is to accompany Physics II lecture PHYS-SHU 93. Experiments in electricity and magnetism, and optics are chosen to illustrate the experimental foundations of physics presented in the lecture courses. The laboratory will also emphasize scientific writing. Prerequisite/ Corequisite: General Physics II or Found of Physics II Honors. Fulfillment: Biology Foundational Courses; Chemistry Foundational Courses; Mathematics Science Lecture sections; Honors Mathematics Science Lecture sections; Neural Science Foundational Courses; Physics Foundational Courses; Computer Systems Engineering Prerequisite Science; Electrical Systems Engineering Prerequisite Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Biology Foundation
- SB Crse Attr. NYU Shanghai: Chemistry Foundational
- SB Crse Attr. NYU Shanghai: Computer Systems Engineering Core Sci Requirement
- SB Crse Attr. NYU Shanghai: Electrical Systems Engineering Core Science Req
- SB Crse Attr. NYU Shanghai: Honors Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Mathematics Math and Science Requirements
- SB Crse Attr. NYU Shanghai: Neural Science Foundational Course
- SB Crse Attr. NYU Shanghai: Physics Foundational Course

PHYS-SHU 95 Foundations of Physics III Honors (3 Credits)*Typically offered Fall*

Continuation of Foundation of Physics II. Topics include thermodynamics, kinetic theory, statistical physics, wave motion, sound, reflection, refraction, interference, diffraction, polarization of light. This is the third semester of a four-semester calculus-based introduction to Physics, and is intended for physics majors and other interested students. The lectures serve as an introduction, and the real work of learning starts when you do the homework and recitation. The lectures will be most useful to you if you ask questions when there is something you do not understand. Do not imagine that you are the only person in the room who does not understand something. The most important part of the class is the homework you do. You learn more physics by doing the homework and recitation than from the lecture. I encourage you to work together with one or more friends on the homework assignments. It is more enjoyable that way, and you learn by explaining things to each other. Textbook: Young and Freedman, Sears and Zemansky's University Physics with Modern Physics, 14th Edition. Additional (optional) reading: R. P. Feynman, R. B. Leighton, & M. Sands, The Feynman Lectures on Physics. Howard Georgi, The Physics of Waves David Morin, (untitled) Waves, <http://www.people.fas.harvard.edu/~djmorin/book.html> Prerequisite: (MATH-SHU 121 or MATH-SHU 201) and PHYS-SHU 93. Fulfillment: Physics Foundational Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr. NYU Shanghai: Physics Foundational Course

PHYS-SHU 96 Foundations of Physics IV Honors (3 Credits)*Typically offered Spring*

Continuation of Foundation of Physics III. Topics include Relativity, Photon, Quantum Mechanics, Molecules and Condensed Matter, Nuclear Physics, Particle Physics and Cosmology. This is the fourth semester of a four-semester calculus-based introduction to Physics, and is intended for physics majors and other interested students. Textbook: Young and Freedman, Sears and Zemansky's University Physics with Modern Physics, 14th Edition. Prerequisite: PHYS-SHU 95 Found of Physics III Honors. Fulfillment: Physics Foundational Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Foundational Course

PHYS-SHU 106 Mathematical Physics (4 Credits)*Typically offered Spring*

Mathematical preparation for the junior and senior courses in physics. Vector analysis, Fourier series and integrals, ordinary differential equations, matrices, partial differential equations, and boundary-value problems. Prerequisite: None. Fulfillment: Physics required course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Required

PHYS-SHU 135 Solid-State Physics (4 Credits)*Typically offered every other year*

This course is designed as an introduction to condensed matter physics for students with knowledge of elementary quantum mechanics. Topics include crystal structure, lattice vibrations, and the energy band theory of metals and semiconductors. Covers the electronic, magnetic, and optical properties of solids. In addition, the course may include some modern research topics such as the physics of nanostructures, soft condensed matter physics, and superconductivity. Prerequisite# None. Fulfillment: Physics elective; Math Additional elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective
- SB Crse Attr: NYU Shanghai: Physics Elective

PHYS-SHU 200 Optical Imaging: Applications in Biology and Engineering (2 Credits)*Typically offered Spring*

Optics and imaging technology play very important roles in science and engineering. For example, the images collected by the Hubble Telescope, since year 1990, have revolutionized modern astronomy. In biology, the use of two-photon excitation microscopy has significantly advanced neuroscience, as we are now able to track the intracellular development at sub-micron resolutions. A typical course in optics offered at any university often focuses on the fundamental aspects of light but much less on its vast applications in the real world. This short course will exemplify the power and usefulness of optics in current sciences and technology, especially in biology and engineering. Prerequisite: None. Fulfillment: Physics elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Elective

PHYS-SHU 201 Introduction to Quantum Computing (4 Credits)*Typically offered Spring*

Quantum mechanics is the theory that tells us how everything we see around us - from atoms, light, electrons, to materials - behaves at the microscopic level. Starting from its abstract beginnings in the early 20th century, in the 21st century we are entering a new age where we can control individual atoms and create quantum systems for new technologies. This course gives a simplified introduction to quantum theory, for students who wish to understand quantum mechanics only to a basic level to see some of its applications. The first part of the course introduces the key aspects of quantum mechanics. In the second part we apply these ideas to technological applications such as quantum teleportation, quantum computing, and cryptography. Prerequisite: None. Fulfillment: Physics elective; Math Additional elective; Honors Math elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Honors Mathematics Math Elective
- SB Crse Attr: NYU Shanghai: Mathematics Additional Mathematics Elective
- SB Crse Attr: NYU Shanghai: Physics Elective

PHYS-SHU 251 Electricity and Magnetism (4 Credits)*Typically offered occasionally*

Introduction to Maxwell's equations with applications to physical problems. Topics include electrostatics, magnetostatics, the solution of the Laplace and Poisson equations, dielectrics and magnetic materials, electromagnetic waves and radiation, Fresnel equations, transmission lines, and wave guides. Prerequisites: PHYS-SHU 95 Foundations of Physics III Honors and PHYS-SHU 106 Mathematical Physics. Fulfillment: Physics required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Required

PHYS-SHU 302 Statistical Mechanics and Thermodynamics (4 Credits)*Typically offered occasionally*

Topics include relation of entropy to probability and energy to temperature, the laws of thermodynamics, Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics, equations of state for simple gases and chemical and magnetic systems, and elementary theory of phase transitions. Prerequisite: Foundation of Physics III Honors (PHYS-SHU 95) in SH or Physics III (PHYS-UA 95) in NY as the pre-req of PHYS-SHU 302 Statistical Mechanics Fulfillment: Physics required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Required

PHYS-SHU 303 Advanced Physics Laboratory (4 Credits)*Typically offered occasionally*

A further development of the experimental techniques introduced in Foundations of Science as applied to modern physics. Following a number of introductory experiments, students have at their option a variety of open-ended experiments they can pursue, including the use of microcomputers for data analysis. Experimental areas include Mossbauer effect, cosmic rays, magnetic resonance, superfluidity and super-conductivity, and relativistic mass. Prerequisite: PHYS-SHU 95 Found of Physics III Honors. Fulfillment: Physics required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Required

PHYS-SHU 997 Independent Study – Physics (2-4 Credits)*Typically offered Fall and Spring*

Prerequisite: Foundations of Science I-III (or Physics I&II, Foundations of Chemistry I&II, Foundations of Biology I&II), and a minimum GPA of 3.0 overall and in all science and mathematics courses required for the major, permission of a physics faculty member (at NYU-Shanghai, NYU-Abu Dhabi, or NYU-New York) who will act as a sponsor and mentor, and approval of the Director of Undergraduate Studies (DUS) in Physics. The faculty mentor must be selected in consultation with the DUS. Offered in the Fall, Spring or Summer. 2 to 4 points per term for a maximum of 4 points. This course aims at engaging students in research. It is designed to offer students an opportunity to observe physics research up close and gain hands-on research experience by working as a member in an active research team. Independent Study I and II can be done with the same supervisor or two different supervisors. No lectures will be given. Student researchers are expected to attend and actively participate in lab/supervision meetings. A Proposal for Independent Study form must be filled out, signed by the DUS, and submitted to the Registrar.

Requires a written report on the research to be evaluated by the faculty sponsor, with a copy submitted to the DUS and a copy to the Dean of Arts & Sciences. Department consent is required. Fulfillment: Physics elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes

- SB Crse Attr: NYU Shanghai: Physics Elective

PHYS-SHU 998 Integrated Science Capstone (4 Credits)*Typically offered Fall*

This course will provide students with a completion of their undergraduate science education by making use of the skills and knowledge they acquired over the course of completing their major to apply to scientific problems across disciplines. Students will be paired with a faculty mentor to engage either in Independent Research or Literature Review to address a scientific question of the student's design, culminating in a written report. Students are encouraged to work with faculty mentors outside of their own field. Open only to Biology, Chemistry, and Physics majors in the senior year. Prerequisite: senior students with physics primary major. Fulfillment: Physics required.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Physics Required

PHYS-SHU 999 Physics Undergraduate Research Thesis (2 Credits)*Typically offered Spring*

Prerequisites: Independent Study (PHYS-SHU 997 or 998), a minimum GPA of 3.65 overall, a minimum GPA of 3.65 in all science and mathematics courses required for the major, and permission of a faculty sponsor and the Dean of Arts & Sciences. Open to Physics majors only. The faculty mentor must be selected in consultation with the Dean of Arts & Sciences. May not be used for the major in physics. Offered in the fall, spring, and summer. 2 points. For physics majors who have completed at least one semester of laboratory research (PHYS-SHU 997 or 998) and are able to expand this work into a thesis. Requires writing a Thesis (i.e., a full literature search of the subject and a formal written report on the research in publication form), which is defended in front of a committee of three faculty (which includes the faculty sponsor), chosen by the student in consultation with the faculty mentor. (The defense may be a brief oral presentation followed by a question-and-answer session.) The Thesis and defense must be evaluated by the committee, with the cover page of the thesis signed by all committee members, with a copy of the Thesis submitted to the Dean of Arts & Sciences. (It is recommended that the student meet with the faculty committee at least once mid-semester to evaluate and guide the student's progress on the thesis work.) Prerequisite: none. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**PHYS-SHU 1999 Physics Research in Shanghai (0 Credits)***Typically offered occasionally*

Prerequisite: None. Fulfillment: General Elective.

Grading: Class does not print on the transcript**Repeatable for additional credit:** No**PHYS-SHU 1999.1 Physics Research in Shanghai (1 Credit)**

Prerequisite: None. Fulfillment: General Elective.

Grading: Class does not print on the transcript**Repeatable for additional credit:** Yes

Psychology (PSYC-SHU)

PSYC-SHU 101 Introduction to Psychology (4 Credits)

Typically offered occasionally

This course highlights the fundamental principles and interesting experiments within the field of psychology, aiming to help students understand mind and behavior of themselves and others. It provides a comprehensive overview of scientific study of thought and behavior, covering a wide range of topics such as the biological and evolutionary bases of behavior, sensation and perception, learning, memory, intelligence and thinking, lifespan development, emotion and motivation, human personality, social behavior, behavioral disorders, and psychological treatment of disorders. Opportunities to apply knowledge gained in class are available through various in-class and out-of-class activities. By the end of this course you will have gained a much better understanding and appreciation of who you are and how you work. Prerequisite: None Fulfillment: CORE ED; Social Science Foundational course; Data Science concentration in Social Science/Psychology.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Psychology
- SB Crse Attr: NYU Shanghai: Experimental Discovery in the Natural World
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

PSYC-SHU 201 Social Psychology (4 Credits)

Social psychology is about how our thoughts, feelings, and behaviors are influenced by the real or imagined presence of others. The class introduces social psychological theories and research and covers topics such as perception of others and the self, attraction, altruism and helping, aggression, moral thought and action, stereotypes, attitudes, and social influence. We learn about each topic by linking it to everyday life, as well as by seeing how researchers take a scientific approach to studying it. Prerequisite: PSYC-SHU 101 Intro to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science Focus Psychology 200 level course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 210 Psychotherapy Theories & Research (4 Credits)

Typically offered every year

This course will develop your understanding of psychotherapy, including the theoretical foundation, clinical application, and empirical research for each treatment approach. Core principles of psychotherapy will be covered, with an emphasis on individual work with adult patients. Emphasis will be on developing a critical perspective on clinical practice as a therapist, and an appreciation for the importance of psychotherapy research. The main aim of this course is to introduce you to the different evidence-based psychotherapies, and their research evidence. Prerequisite: PSYC-SHU 101 Introduction to Psychology Fulfillment: Social Science Focus Psychology 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 220 Cognitive Psychology (4 Credits)

Typically offered every other year

In this course, you will delve into diverse areas of human cognitive psychology such as perception, attention, memory, thinking (including problem-solving and reasoning), consciousness and language acquisition. We will explore the connections between cognition and brain function, with an emphasis on how researchers develop theories and gather evidence on relevant issues. We will also exercise to articulate both orally and in writing the key components of each of the theories and topics that we will cover throughout the term. Prerequisite: PSYC-SHU 101 Introduction to Psychology. Fulfillment: Social Science Core or Focus Psychology 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Core Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 234 Developmental Psychology (4 Credits)

Typically offered occasionally

This course is designed to give students a comprehensive overview of developmental psychology following a chronological approach, covering normative growth and development from conception to adolescence. Specifically, we will examine physical, cognitive, social, and emotional development with an emphasis on psychosocial development in context. This course not only covers major theories and research findings on human development, but also provides students with the opportunity to appreciate the practical significance of sound theory and research. Prerequisite: PSYC-SHU 101 Intro to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science Focus Psychology 200 level course; DS concentration in Psychology.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Psychology
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 238 Abnormal Psychology (4 Credits)

Typically offered every year

This course focuses on the definition, history, and scope of abnormal psychology, with an emphasis on the psychological factors that control the origins, maintenance, and modification of behavioral disorders. The primary goal of this course is for students to become familiar with up-to-date research in the field but also to critically evaluate how we think about mental illness using theory, research findings, logic, and applied knowledge. A secondary goal is for students to become educated consumers of mental health information to be able to predict the factors that increase the risks for a given disorder and discriminate between treatment types based on efficacy demonstrated in the research literature. Prerequisite: PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science Focus Psychology 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 300 Psychology of Justice (4 Credits)*Typically offered every other year*

In this class, we examine various fields within psychology that study issues around justice and morality and apply it to real-world contexts. Students learn about moral development in children and adults, people's justice motive, evolutionary and social psychological perspectives on punishment behavior, interpersonal and intergroup processes related to forgiveness as well as alternatives to punishment. Within the area of retributive punishment, we cover specific topics such as the importance of victim empowerment and the theoretical framework of punishment as communication. Students learn how societal and cultural factors shape experienced (in)justice as well as reactions to it, how to apply the theoretical insights to real-world situations of conflicts and perceived injustice, and how an interdisciplinary approach benefits psychological research on this topic. Prerequisites: PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A AND Sophomore Standing. Fulfillment: Social Science Focus Psychology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 317 Psychology of Sexual Orientation and Gender Diversity (4 Credits)*Typically offered every year*

Sexual and gender diversity has been considered a politically sensitive issue in some countries including China. Terms like "LGBTQ+" (i.e., "lesbian, gay, bisexual, transgender, queer, questioning, and more"), "SOGIE" (i.e., "sexual orientation and gender identity and expressions"), "nonbinary," "queer," and "rainbow community" are refuted by some people as modern Western creations. However, despite effortful suppressions, the visibility of LGBTQ+ people and related issues in the society and the media has increased drastically over the past decades in China. This seminar course explores the science of sexual orientation and gender diversity, as well as associated public controversies. Prerequisite: PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science focus Psychology/Global Health 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 329 Parenting and Culture (4 Credits)*Typically offered Fall*

Examination of parenting views & practice across socio-cultural groups, discussion of similarities & differences in parenting around the globe, how parenting changes over the life course of the child, & how parenting shapes children's development. Prerequisite: PSYC-SHU 101 Intro to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: CORE STS; Social Science Focus Psychology 300 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 337 Adolescent Development (4 Credits)*Typically offered occasionally*

This course covers physical, cognitive, and socio-emotional development of adolescents in diverse contexts. Specifically, changes and characteristics of key developmental domains of adolescents, such as family, peer, and romantic relationship, are discussed, with particular attention to contextual factors that influence adolescent development such as culture, gender, and social class. This course is for students who have acquired the basic principles of psychology as well as fundamental knowledge of human development. Prerequisite: PSYC-SHU 101 Intro to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A, AND PSYC-SHU 234 Developmental Psychology as a pre- or co-requisite. Fulfillment: Social Science Focus Psychology 300 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 344 Psychology of Human-Machine Communication and Relationships (4 Credits)

From the perspective of psychological science, developments in machine-learning and AI raise many interesting questions. AI technologies are already proving useful in their ability to monitor and assess human behaviors, emotions, and decision patterns. This is becoming possible through the sheer volume of information available online in connection with individuals, groups, and through the sophistication of predictive algorithms that can see patterns that the human mind cannot. As AI systems, machines, and robots are increasingly built to mimic human beings, will we begin to communicate with, react to, or feel the same towards them as we do to other human beings? If an AI system can assist in an online purchase or a psychological intervention (e.g., a chatbot), can they also become our friends? Could we fall in love with an artificial agent or a robot? In this course, we use the lens of psychological science to investigate these and other aspects of human-machine communication and their effects on human-human relationships. Prerequisite: Introduction to psychology (PSYC-SHU 101) or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A OR Introduction to Neural Science (NEUR-SHU 201) OR Introduction to Computer Science (CSCI-SHU 101) Fulfillment: Core STS; IMA elective; IMB major IMA/IMB elective; Neural Science elective; Social Science Focus Psychology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Neural Science Elective
- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 349 Cultures of Psychology (4 Credits)*Typically offered occasionally*

The purpose of this course is to critically examine the ways that culture—with regard to race/ethnicity, gender, and social class—has shaped major theoretical perspectives in psychology, and to familiarize students with the impact of cultural factors on the evolution of various psychological constructs. Students will explore the multifaceted nature of their own cultural backgrounds and apply it to the establishment of their worldviews. Critical examination of the process of psychological research and scholarship will be emphasized. Prerequisite: PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science Focus Psychology 300 Level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 352 Psychology of Human Sexuality (4 Credits)*Typically offered Fall*

The course provides an overview of empirical research into the psychology of human sexuality. The course surveys findings from basic research, theories regarding human sexuality, sexual functioning and its psychological correlates, and clinical research into sexual problems and their treatment. Topics covered include psychological aspects related to sexual and gender minorities, including affirmative counseling approaches for LGBTQ individuals; current scientific understanding of sexual variations as well as sexual harassment and coercion; sex as a commodity; and psychological aspects related to HIV/AIDS and its prevention. The study of human sexuality is inherently multidisciplinary as sexuality is a biopsychosocial phenomenon. Even though the course focuses on the psychological level of analysis, cultural, societal and legal aspects related to sexuality in a global context are relevant to many of the topics covered. As an example, we explore the topic of sexual racism/ racial fetishism as well as legislation related to sexuality in different societies. Prerequisites: PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science Focus Psychology 300 level; Data Science Concentration in Psychology.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Psychology
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 360 Evolutionary Psychology (4 Credits)*Typically offered every year*

Are we Zombies? Just vehicles, that is, for carrying copies of genes? How can that be given that our experience seems to suggest our own selves are important? It is beyond dispute that the human brain is a result of evolution. However, opinions differ regarding the extent to which evolution has created either a general purpose learning machine, the contents of which are driven primarily by culture and socialization, or a mind that consists of more specific mechanisms intended to tackle particular problems of survival and reproduction. We review the central theoretical concepts of evolutionary psychology and the empirical evidence for them. We explore problems of survival, emotions, sex and mating, as well as family and group living. We also examine the major criticisms of the evolutionary psychological framework. Finally, we discuss how the evolutionary view of human psychology affects our understanding of who we are. Prerequisite: PSYC-SHU 101 Introduction to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: CORE STS; Social Science Focus Psychology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 365 Emotional Development (4 Credits)*Typically offered occasionally*

This course is designed to discuss the way that emotion develops over the course of a lifespan in relation to cognition. Topics include the organization model of emotional development; the neural basis of emotion & cognition; the relation of emotional & cognitive development to temperament & personality. Focus will be on emotional development from infancy through adulthood, emotion socialization processes in the family context, the dynamic systems approach in understanding emotional processes, and the biological perspective of emotional development. Prerequisite: PSYC-SHU 101 Introduction to Psychology OR PSYC-SHU 234 Developmental Psychology Fulfillment: Social Science Focus Psychology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

PSYC-SHU 382 Psychotherapy Skills Practice (4 Credits)*Typically offered every year*

In this course we will discuss a wide range of clinical interview techniques and clinical interventions that are used by psychologists, when they treat patients with mental health problems. We will start with a discussion about the profession of psychologist, and we will address the cultural differences with regards to therapeutic interactions, graduate trainings, accreditation, and continued professional development for licensed clinicians. Then we will spend the majority of this course exploring different supportive and expressive techniques that can be used to support patients, including active listening skills, how to ask open questions, paraphrasing, and making interpretations. Prerequisite: PSYC-SHU 101 Introduction to Psychology Fulfillment: Social Science Focus course Psychology track 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

Religious Studies (RELS-SHU)

Self-Designed Honors Major (SDHM-SHU)

SDHM-SHU 410 Self-Designed Honors Major Capstone Seminar (2 Credits)*Typically offered Fall*

This seminar introduces self-designed honors majors to research methods in preparation for the Capstone Honors Independent Study in the spring semester of the senior year. By the end of the course, students will have produced a well-formulated research question, methodological design, and bibliography. Open only to seniors who have been approved as self-designed honors majors. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Social and Cultural Analysis (SCA-SHU)

Social Foundations (CCSF-SHU)

CCSF-SHU 101L Global Perspectives on Society (4 Credits)*Typically offered Fall*

In this course, we will explore a set of timeless questions about how society is, or should be, organized, based on close examinations of diverse thinkers and writers from different times and different cultures. The questions raised in this course will engage the moral, social, and political foundations of human relationships, the principles according to which people assemble into societies of different scales, and the bases for interaction among societies in a world of accelerating interdependence. By engaging texts that explore these questions from multiple perspectives, students reflect on several overarching issues, including how different societies have organized their economic and political institutions, how those societies fashion both shared identities and hierarchies of difference, how people experience themselves as “individuals” or as members of a collectivity, how they experience both time and space, and how they engage with others both locally and globally. Over the semester, students develop skills that are central to a liberal arts education, including reading carefully and thoughtfully, considering questions from more than one perspective, participating in respectful and serious intellectual explorations of difficult topics, developing oral presentation skills, and writing essays that make effective and appropriate use of the ideas of others as they present the students’ own ideas to different audiences of readers. Each week, students will meet twice as an entire class for lectures and once in smaller recitation sections led by one of New York University Shanghai’s Global Postdoctoral Fellows. Students receive 4 credits for the lecture and recitation. Prerequisite for CCSF-101: none. Fulfillment: Core Curriculum Global Perspectives on Society.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GPS

Social Impact (SOIM-SHU)

SOIM-SHU 65 Organizational Communication and Its Social Context (4 Credits)

Typically offered Fall and Spring

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 communication to study and practice the ways in which organizations communicate to their varied internal and external stakeholders. Assignments develop students' abilities in speaking and writing to these varied audiences, both to inform and to persuade. The course emphasizes bridging theoretical fundamentals, and action learning is stressed, which includes applying communication strategy to the following: oral and written business assignments; presentation delivery techniques; visual communication analysis and practice; team communication. Pre-requisites: None, but priority to business majors; not open to freshmen. Fulfillment: BUSF Non-Finance elective; BUSM Non-Marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr. NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr. NYU Shanghai: IMB Business Elective

Social Science (SOCS-SHU)

SOCS-SHU 101T Topics in Psychology: Human Nature and Genocide: A case study in critical social psychology (4 Credits)

Imagine participating in an experiment in which you are asked to shock a fellow participant who answers questions incorrectly[1]. You are to shock the participant at increasing rates for every answer they get wrong. Eventually, you are required to shock them at a level capable of killing them. How far would you go? What factors are important in understanding how far you would go? Can evidence from such an experiment provide enough insight into why you may, or may not, be capable of committing acts of genocide? This is a course in critical social psychology using the case study of human nature and genocide. The goal is to critically analyze experimental social psychology by applying it to the study of human nature and genocide. We will do this by studying classical social psychology paradigms and experiments. We will also engage with theories such as evolutionary psychology, cultural anthropology, Marxist psychology, and critical theory—allowing us to compare and contrast various ways of studying human behavior. In order to aid us in this journey, we will ask questions such as: · What role does human nature play in genocide? · Can human nature be discovered by the scientific method? · Is human nature today the same as it was 15,000 years ago? Or, could genocide have happened 15,000 years ago? Prerequisites: PSYC-SHU 101 Intro to Psychology or AP Psychology: Score of 5 or IB Psychology HL (Higher Level): Score of 7 or A Level Psychology: Score of A. Fulfillment: Social Science Focus Psychology 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: Social Science Focus Psychology

SOCS-SHU 110 Introduction to Sociology (4 Credits)

Typically offered every year

The sociological perspective helps us to understand connections between self and society, order and conflict, and continuity and change. It reveals how social forces shape our own life and the lives of those around us, in ways that are often hidden or overlooked. This course will help you to develop your “sociological imagination” – understanding individual experiences in the broader context of social structures. The course will also provide an overview of and introduction to the field of sociology. You will learn what sociology is, how sociologists do their research, and the key theories and concepts that guide the discipline. We will explore a variety of different topics of interest to sociologists and lay persons, including inequality and social class, cities and communities, gender, family and marriage, education, migration and immigration, health, and social networks. Prerequisite: None. Fulfillment: Social Science Foundational course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: Social Science Foundational Course

SOCS-SHU 130 Introduction to Political Theory (4 Credits)

Typically offered every other year

In a world where interests and values often conflict, how should societies be governed? Which form of government is best? Have we reached what Francis Fukuyama famously termed ‘The End of History’—the notion that there are no serious contenders to liberal democracy? Our search will range broadly—we will examine ancient and modern theorists such as Aristotle, Machiavelli, Montesquieu, and Mill as well as Chinese critics of liberal democracy. Prerequisite: None. The course should be considered equivalent to POLSC-AD 120 and POL-UA 100 Political Theory Fulfillment: Humanities Introductory course; Social Science Foundational course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr. NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr. NYU Shanghai: Social Science Foundational Course

SOCS-SHU 133 Urbanization in China (4 Credits)*Typically offered Fall*

This course introduces urbanization in China in the context of the East Asian region and globalization. By examination of the development of selected cities and discussion of experimental urban themes, this course aims to depict prevalent patterns of urbanization at appropriate levels, such as neighborhood types, metropolitan areas, and regional urban agglomeration. We examine traditional forms of settlement and place more recent urban phenomena in a broader historical perspective. We explore relevant political traditions and forms of planning administration to reveal underlying social, economic, cultural and environmental circumstances at work, while learning tools and methods of spatial analysis that can be applied to the study of cities all over the world. Prerequisite: None. Fulfillment: CORE SSPC; Social Science Foundational course or Urban Studies 200 level; Humanities 18-19 Critical Concepts; GCS The Politics, Economy, and Environment of China.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 135 Environment and Society (4 Credits)*Typically offered Fall*

Topics examined include environmental history and concepts of nature and the environment; the rise of environmentalism; environmental skepticism; anthropogenic global change; population and consumption, ecological footprint analysis, and other environmental indicators; environmental justice; public goods and collective action problems; regulatory regimes; environmental politics; environmental values; environmental movements, protest, and disobedience; and the future of environmentalism. Prerequisite: None. Fulfillment: CORE STS; Social Science Foundation course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

SOCS-SHU 136 Human Society and Culture (4 Credits)*Typically offered occasionally*

In this course we examine contemporary cultural, social, and political issues through the lens of socio-cultural anthropology, the study of human society and culture. We approach the discipline through a historical examination of how anthropologists have studied rituals and beliefs, family and kinship, sex and gender, systems of exchange, bodies and selves, race, nationalism, globalization, power and human agency. Students become familiar with ethnography, the study of cultural and social systems through long-term fieldwork and observation. In addition to introducing students to the history of anthropological thought, we study contemporary ethnographies that explore border-crossing and migration, media and digital social lives, infrastructure and state-making, and faith and development. Pre-requisite: None. Fulfillment: Social Science Foundational course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

SOCS-SHU 141 Methods of Social Research (4 Credits)*Typically offered occasionally*

This course serves as an introduction to the broad range of methodologies used to produce knowledge in the social sciences, including political science, economics, anthropology, psychology, and sociology. Students will learn how to effectively pose questions about social phenomena, how to design a research project, and how to identify and work with data. Readings also expose students to prominent examples of how both quantitative and qualitative methods are chosen and applied in the social sciences, to serve as a basis for students to choose methods in which they want to train further in their subsequent study. The focus of the lectures and discussions is thus on understanding the various methods and how they affect the design of a research project rather than actually applying them; the final project will require students to design a proposal for an independent research project of their choosing. Pre-requisite: None. Fulfillment: Social Science Methods; Data Science concentration in Social Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 145 Foundations of Public Policy (4 Credits)*Typically offered every year*

Public policy affects our lives in profound ways even when we are not aware of them. This course is designed to introduce students to the profession of public policy and policy analysis. It provides an introduction to public policy and policy analysis, why it is important, and how it involves a systematic approach for examining a variety of actors contribute to public policy choices. Prerequisite: None. Fulfillment: Social Science Foundational Course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

SOCs-SHU 150 Introduction to Comparative Politics (4 Credits)*Typically offered occasionally*

Why do some nations succeed while others fail? What is the relationship between regime type and prosperity? Can "struggling" countries learn from more "successful" ones? How do we define the success and failure of nations in the first place? This course will address these and other questions about the relationship between the domestic politics of a country and the outcomes in the country that most humans care about – wealth, happiness, stability, opportunity, and more. Students will learn tools for analyzing complicated issues like politics and prosperity through a social scientific lens. Students will master the fundamentals of the area of Comparative Politics through assignments, readings, exams, and hands-on analysis opportunities. Students will be challenged to leave their expectations and presumptions about "good" or "bad" regimes at the door, and come in, sleeves rolled up, ready to rigorously engage in the disciplined practice of Comparative Politics – including questioning whether it even makes sense to "compare" "politics" at all. The course will prepare students for upper level coursework in Political Science as well as general life success. Prerequisites: None. Fulfillment: Social Science Foundational course; Data Science concentration in Political Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Poli Sci
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

SOCs-SHU 151 Adolescence, Human Development, and Contexts: A Multi-disciplinary Perspective (4 Credits)*Typically offered every year*

Life course is characterized by the embeddedness of human development featuring age-differentiated transitions in familial, institutional, societal, and historical contexts. This course introduces the modern literature on adolescent development and its contexts, as represented in journal articles, research reports, media coverage, public talks, etc. As explicitly a reading course, it focuses on ideas, facts, and findings derived from a wide range of disciplines, including biology, psychology, public health, sociology and anthropology. The course considers major theories and debates about adolescence, key aspects of adolescent life (physical development and cognition, personality and social cognition, psychological wellbeing, behavioral problems, and sexuality), and critical social contexts for adolescent development (family, schools, peer networks, social media, historical and societal settings). The course concludes with a discussion on the transition from adolescence to adulthood. Prerequisite: None. Fulfillment: Social Science Core course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core Course

SOCs-SHU 160 Introduction to International Politics (4 Credits)*Typically offered occasionally*

What are the causes of war? Why are some countries able to cooperate over issues like trade or the environment, while others are not? What is the role of international organizations and alliances, such as the UN, NATO, and the EU in the international state system? This course will give students an introduction to thinking analytically and systematically about outcomes in the international system, will teach them the prevailing major theories about these issues, and will equip students to begin to formulate their own answers to these questions. Students will learn a set of formal tools to analyze complex world events, which will prepare them for upper level international relations and other social science courses, as well as to become comfortable applying social science methodologies and theories to better understanding the world around us. The class will use some basic math, including introductory game theory, and some background in inferring statistical results will be helpful, but is not required. Over the course of the semester students will be challenged to apply the models and theories from class to real world situations. Fulfillment: Social Science Foundation; GCS Politics, Economy and Environment of China; Data Science concentration in Social Science/ Political Science. Pre-requisite: NONE.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Poli Sci
- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

SOCs-SHU 170 Introduction to Global Health (4 Credits)*Typically offered Fall*

This course provides an introduction to current challenges in global public health. The central concepts and tools will be introduced, and health policies and health systems will be analyzed in different environments. We will discuss the role of demographics, geography, and socio-economic factors like income, resources and infrastructures disparities. We will discuss in depth a few important case studies, such as the rise of life expectancy and the epidemiological transition, and aging and global health, underline the role of environmental factors in global health, and discuss the new trends of global health for the immediate future. Pre-requisite: None. Fulfillment: CORE STS; Social Science Foundational course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course

SOCS-SHU 175 Qualitative Methods in Social Sciences (4 Credits)*Typically offered every year*

This course serves as an introduction to qualitative research methods in social sciences. By the end of the semester students should be able to (1) digest and understand a broad range of research in social sciences, and (2) have a firm grasp of how to design their own qualitative research project in one of the assigned social scientific areas. The students will learn how to effectively pose research questions; how to choose research methods in relation to potential inquiries and materials; how to select and compare cases; how to analyze contents and discourses; how to appraise the methodological strengths and weaknesses in other researches; and finally, how to design their own research projects.

Prerequisite: None. Fulfillment: Social Science Methods course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 190 Introduction to the Computational Social Science Methods (4 Credits)*Typically offered every year*

This course invites students from diverse backgrounds and provides an accessible introduction to the burgeoning field of Computational Social Science (CSS). We aim to explore research design and data skills at the intersection of social sciences and digital innovations. This course emphasizes using big and rich social digital data to understand and explain societies and human behaviors. We introduce fundamental topics in CSS, including digital trace data collection, social network analysis, and text-as-data, using the R programming language. Besides discussing the new opportunities of CSS, this course also highlights critical topics, such as data ethics and data-driven bias. Prerequisite: None. Fulfillment: Core AT; Social Science Foundational Course; Social Science Methods Course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Algorithmic Thinking
- SB Crse Attr: NYU Shanghai: Social Science Foundational Course
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 199 Global Transportation (4 Credits)*Typically offered every year*

How do different forms of transportation influence society and urban development? How and why do these impacts differ across regions? How can we make the global movement of people easier and better? This course introduces students to themes, concepts, and methods of analysis in urban studies through the lens of transportation. Through interactive discussions of case studies drawn from a wide variety of places and modes of transit, we will explore how variation in transportation characteristics relates to issues of urban studies, politics, the economy, public health, the environment, business, and society. Students will learn about technological advancements in transportation and develop data interpretation and analysis skills. They will critically discuss relationships and engage in comparative analysis across the cases to better understand national and regional differences. Prerequisite: None. Fulfillment: CORE STS; Social Science Urban Studies Focus 200 level course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 201 Planning Global Cities (4 Credits)

This course takes an interpretative look at the spatial conditions of our rapidly urbanizing world. It focuses on comparisons and contrasts between urban development patterns of global cities, such as New York City, Shanghai, Abu Dhabi, and Mumbai. By introducing multiple scales (neighborhood, city, and regional) of urban growth, the course seeks to foster an understanding of the socio-economic processes, physical planning and design practices, cultural influences, and policy interventions that influence urban design and planning. While introducing the basic analytic skills necessary for spatial interpretation, the course addresses the challenges and opportunities of future smart cities in the era of urban big data. Pre-requisite: None. SOCS-SHU 133 Urbanization in China is recommended but not required Fulfillment: Social Science Focus Self-Designed/Urban Studies 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCs-SHU 203 Global Urbanism (4 Credits)*Typically offered Fall and Spring*

Today, more than half of the earth's human population lives in urban areas. Why did urban areas initially develop, how have humans aimed to shape them, and what are today's most pressing urban challenges? In this course, we survey key historical moments that shaped urbanism, the core tools used by urban planners throughout history, and the issues that animate urban areas and occupy planners in the modern world. While the course is grounded in the profession of urban planning as a key contributor to the development of cities, it also emphasizes a global understanding of the political, socio-economic, environmental, and technological forces that both motivate and challenge planners and impact cities independent of the formal planning process.

Prerequisite: Sophomore Standing. SOCS-SHU 133 Urbanization in China is recommended but not required. Fulfillment: Social Science Focus Self-Designed/Urban Studies 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCs-SHU 204 Environmental System Science (4 Credits)*Typically offered every year*

When considering predictions by many scholars of apocalyptic scenarios, we are left asking: Has humanity escaped the pending environmental disasters? Numerous environmental problems—like global climate change, massive extinctions, increasing pollution—are still threatening the sustainability and prosperity of global societies. Will the new apocalyptic predictions become realities? Can we sustain the current pace of economic growth indefinitely? What can we do to survive and thrive? To equip students with the knowledge needed in answering those questions, this course offers a comprehensive survey of the key topics in environmental science, using a system science perspective. The system science perspective provides insights into why some environmental issues are nonlinear, surprising, and difficult to solve. Moreover, the system science perspective also unravels the hidden connections between various environmental topics including human population; global chemical cycles; ecosystems and biodiversity; energy flows in nature; agriculture and food systems; energy systems from fossil fuels to renewable forms; water resources; atmosphere and climate change; urban environments. Prerequisite: None. Environment and Society is (SOCs-SHU 135) recommended but not required Fulfillment: CORE STS; Social Science Focus Environmental Studies 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies

SOCs-SHU 205 Fundamentals of Spatial Analytics (4 Credits)*Typically offered every year*

Recent advances in spatial data science have changed how we do almost everything, from calling a cab, ordering food delivery, to managing complex networks of supply chains. These new applications generate vast amounts of spatial data. To make sense of spatial data, we need spatial analytics, a framework and a toolbox to analyze the locations of, distances and interactions between spatial objects. This course introduces different types of spatial data and reviews a range of geospatial methods to explore spatial data. Important concepts in spatial thinking, cartography, geographic information science, and remote sensing will be introduced and discussed with real-world examples and lab exercises. This course also provides tools to generate spatial insights in other disciplines, such as economics, public policy studies, sociology, anthropology, political science, environmental and urban studies. Prerequisite: None. Sophomore status is recommended but not required. Fulfillment: Social Science Methods.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCs-SHU 206 Mapping and Spatial Analysis (4 Credits)*Typically offered every year*

Maps have the power to shape how we see and understand the world. This course asks students to think critically about maps, spatial data, and the cartographic process. Students will engage in hands-on exercises to gain experience with map design and a variety of spatial analysis tools. Mapping is used in research across a wide range of social science disciplines, from political science to urban studies to environmental science. This course draws on interdisciplinary readings and examples to introduce students to the fundamentals of spatial analysis methods. Students will leave the course with an understanding of how spatial data can contribute to social science research in a variety of disciplines, how cartographic decisions impact outcomes, and how to produce maps and use other tools for spatial analysis. Prerequisite: None. Fulfillment: Social Science Methods Course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 207 Urban and Architectural Design in China (4 Credits)*Typically offered every year*

This course introduces students to the field of urban design and architecture in three steps. In the first step, we develop students' understanding and appreciation of architectural design through the introduction of design principles, precedent studies, walking tours and architectural exhibitions. In the second step, we extend the knowledge to a city scale, in which students learn how the decision making processes of urban and architectural design can affect the outcomes of a city. In the third step, we apply the concepts and skills learnt to design a pocket space, in which students work in groups to produce innovative schemes for a selected site (i.e. an urban block) in Shanghai. The goal of the course is to raise student's awareness of urban issues, environmental stewardship, social equity, and economic viability into the creation of place identity. We also encourage students' consciousness and take responsibility for the place (Shanghai) they live in by focusing on three aspects: understanding what you see, what to do, and what to communicate. These aspects will provide students with the basic ideas of the power of architectural design and urban planning. Prerequisite: None. SOCS-SHU 133 Urbanization in China is recommended but not required. Fulfillment: Social Science Focus Urban Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 208 Cities at Crossroads: Environmental Challenges and Opportunities in Cities (4 Credits)*Typically offered every year*

In the next three decades, urban populations will grow by more than 70 million in the United States, more than 210 million in China, and more than 2 billion in the world. This rapid pace of urbanization continues to create various environmental challenges in cities. Urban residents tend to consume more energy, animal products, and material goods. Urban land expansion leads to losses of valuable agricultural lands, natural habitats and results in more intensive heat waves and flooding. However, almost every urban environmental challenge also presents an opportunity. For example, to achieve the same living standard, urban residents may consume less energy, water, and land per capita compared to their high-income rural or suburban counterparts. The first half of this course will survey six aspects of environmental challenges in cities, including energy, heat, water, food, waste, and land. Through lectures, readings, writings, and discussions, students will understand the past, present, and future of these six challenges, and how they are interconnected with each other. In the second half of this course, students will revisit the six aspects with a more optimistic lens, to understand the possibilities in turning these environmental challenges into opportunities. Prerequisite: None. Fulfillment: CORE STS; Social Science Focus Environmental Studies/ Urban Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 210 Statistics for the Behavioral & Social Sciences (4 Credits)*Typically offered Fall*

Students gain familiarity with data description, variance and variability, significance tests, confidence bounds, and linear regression, among other topics. Students work on social science data sets, learn approaches to statistical prediction, and learn to interpret results from randomized experiments. Prerequisite: None. Fulfillment: Social Science Methods course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 211 Land and Law in China and the United States (4 Credits)*Typically offered every other year*

The United States and China have vastly different systems of property yet similar problems in controlling the use and possession of land. This course explores the constitutional and regulatory frameworks for dealing with land in the United States, China, and beyond. Starting with some foundational readings in the law, politics, and economics of property, the course explores selected topics in property law and land-use regulation in China and the United States, organized under four foundational categories of possession, use, finance, and compensation. The basic approach of the course is to match judicial decisions and other resolutions of actual property disputes with theoretical literature in economics and politics discussing the normative and positive aspects of the general issue at stake in the case. Prerequisite: sophomore standing or above. Fulfillment: Social Science Focus Political Science 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 213 Applied Social Network Analysis (4 Credits)*Typically offered every other year*

Our society is interconnected, spanning physical and digital spaces, making network science a substantive approach to comprehending social relationships. This course introduces social network analysis (SNA) as a method and its real-world applications. This course is designed with four main modules: we start with an overview of SNA history and related social theory, followed by an introduction to SNA data collection, key measures, and visualization, using the R programming language. Finally, we explore network formation and effects by learning the selection and influence (and diffusion) empirical models. The course materials are designed to engage students from diverse disciplinary backgrounds in social science. Prerequisite: SOCS-SHU 190 Introduction to Computational Social Science OR CSCI-SHU 101 Introduction to Computer and Data Science OR MATH-SHU 235 Probability and Statistics OR BUSF-SHU 101 Statistics for Business and Economics. Fulfillment: Social Science Methods course or Sociology track 200 level focus course..

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 215 Pixelizing Societies from Space: Remote Sensing Perspectives (4 Credits)*Typically offered every year*

Remote sensing measures objects without direct contact. Data about the earth's surface has been collected for decades and currently there are more than 4,500 active satellites in orbit. From tropical cyclones to pavement markings, satellite remote sensing can provide unprecedented details via a continuous stream of images. This course introduces fundamental concepts and principles of remote sensing, and its various applications in social science. Specifically, the course will cover basic physics of electromagnetic radiation, techniques of image interpretation, characteristics of different sensing systems (such as multispectral, thermal, microwave and lidar). We will use powerful web-based interactive tools from Google Earth Engine to access a multi-petabyte catalog of satellite imagery, and discuss real world applications. Upon completion, Students will understand how remote sensing technologies enable unparalleled awareness and decision making for the society. Fulfillment: Social Science Methods course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 218 Data Management for Quantitative Social Science (4 Credits)*Typically offered every year*

This is an entry-level course for beginners to quantitative data analysis. With a deliberate "hands-on" orientation, this course focuses on practices of managing, presenting, analyzing, and interpreting data for social scientific research, many of which are not covered in regular statistics courses. A signature feature of the course lies in its close integration with two of the most widely used social surveys in China, namely CGSS and CFPS. This course also takes a comparative perspective on data analysis. Whereas nearly all lecture demonstrations will draw on data from the two Chinese surveys throughout the course, survey data from other parts of the world, in particular the United States, will be used for some of the in-class exercises. Prerequisite: Statistic for Business and Economics (BUSF-SHU 101) OR Statistics for Behavioral and Social Sciences (SOCS-SHU 210) OR Probability and Statistics (MATH-SHU 235) Fulfillment: Social Science Methods course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 219 Family and Society (4 Credits)*Typically offered occasionally*

What is the family? How does society and individuals affect family and vice versa? Are people born to become who they are? To what extent does your family determine your future? This course provides an introduction to the study of family. We will explore the meaning and social basis of family life, with particular attention to social stratification and inequality. Specific topics include education, gender, population, history, and culture. By making vivid the meaning of family, we will develop critical thinking and build a holistic understanding of its relationship with and influence on everyday life. Prerequisite: None. Fulfillment: Social Science Focus Sociology 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 220 Law and Society in the U.S. (4 Credits)

This course is an introduction to law and its role in society in the US from a practical and a critical standpoint. In the first part of the course we engage in legal analysis and writing about cases in contracts, torts, criminal and constitutional law. This part of the course is an introduction to "how lawyers think" and how lawyers and judges write about legal issues. Students learn to "brief" and debate several cases each week. In the second part of the course we take a wider and more critical view of the civil litigation and criminal justice systems in practice. We look at instances where law has changed society and where society has changed the law, especially in the area of economic class and race and women's rights. We consider classic questions in the philosophy of law as well as contemporary radical critiques of the American legal system. We conclude the course with a moot court on a case currently before the US Supreme Court. Pre-requisite: None. Fulfillment: Social Science Focus Political Science 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 222 International Political Economy (4 Credits)*Typically offered every year*

This course introduces the concepts, frameworks, and tools used by political economists to study the relations, structures, and processes that constitute the international political-economic system. Course readings will reflect the interdisciplinarity that characterizes the field of IPE, which draws on theoretical and empirical resources from political science, economics, sociology, anthropology, and history to better understand and evaluate policies, institutions, opportunities, and challenges in the global political economy. Prerequisite: None. Fulfillment: Social Science Focus Political Science/Political Economy/International Relations 200 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 223 Discrimination and Societal Analysis (4 Credits)*Typically offered every year*

This course is a theory and skills-based course designed to introduce students to the tools of measuring and detecting discrimination in the market and non-market contexts. It is designed for all students in social sciences, humanities, economics, and allied fields. The focus is on the application of modern tools and race and ethnicity relations research to specific problems of market and non-market discrimination. Students will read, summarize and synthesize classic journal and recent articles on discrimination. They will work through several exercises designed to sharpen empirical skills related to analyzing discrimination. Grading is based on class participation, four problem sets, one individual analysis of assigned reading(s), and a Research Note. Prerequisite: Sophomore standing or above Fulfillment: Social Science Core (multidisciplinary) and Sociology 200 level focus course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 224 Climate Change and Society (4 Credits)*Typically offered every year*

Over the lifetime of today's undergraduate students, climate change will drive one of two possible futures: either the most profound economic shift in modern history, where entire sectors grow, die, or transform, reshaping asset classes and location values, or a future marked by severe disruptions to the natural foundations of human societies, affecting livability, food, air, water, temperature, and storms. These profound changes will redefine many aspects of our world and economy. Prerequisite: Passing grade D or above in Global Perspectives on Society (GPS) OR not open to first-semester students. Environment and Society (SOCS-SHU 135) or Environmental System Science (SOCS-SHU 204) are recommended but not required. Fulfillment: CORE STS; Social Science Environmental Studies track 200 level focus course and Social Science Sociology track 200 level focus course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 227 Inequality and Society (4 Credits)*Typically offered every year*

Inequality has reemerged as a central concern in social science research and also in the contemporary world. Studies of social stratification and mobility seek to understand how patterns of inequality emerge and persist over time, and what the implications of inequality are for society, families and individuals. This course will introduce the basic concepts and theories in analyzing social and economic inequalities in the contemporary era. Readings on selected topics will be drawn from the studies on the US, China, and other countries as available. Prerequisite: None. Fulfillment: Social Science Focus Sociology/Political Economy 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 228 Merchants, Chiefs, and Spirits (4 Credits)*Typically offered every year*

Brokers and intermediaries bring people together for material or symbolic rewards, often overcoming a lack of trust or information between strangers. Brokers have been viewed, over time, with endearment as well as with suspicion, more recently viewed as superfluous middle-men in a supposedly "friction-free" world. Despite several predictions about the end of brokers, they are still present and thriving in different forms and scales. How do we think of brokers in an increasingly (inter)networked, digitized, and automated world? We explore the role of brokers and intermediaries across a range of social, cultural, and political relations and institutions, including gender, media, political rule, public health, infrastructure, and religion. Course readings are drawn from various disciplines and fields, including anthropology, sociology, political science, economics, and history, and we consider how inter-disciplinary discussions and debates have approached the concept of mediation over time. Prerequisite: None. Fulfillment: Social Science New Challenges core course; Humanities Advanced (18-19: Topic) course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Social Science Core New Challenges in Social Sci

SOCS-SHU 229 Capitalism, Socialism, Communism: Theory and Practice (4 Credits)*Typically offered Fall and Spring*

The ideological clash between capitalist and communist regimes shaped much of the politics of the 20th century, and continues to frame the discourse of world politics with the rise of China as a global power. In this course, we study the varieties of capitalism, socialism, and communism envisioned by theorists and put into practice by nations. We examine the economic and political aspects of these regime types in their imagined and existing forms to develop a taxonomy with which to classify and evaluate contemporary regimes. Course case studies include the U.S., Sweden, and China, and students complete a case study of another regime as a final project. PREREQ FOR SOCS-SHU 229 is Sophomore standing or above required. Fulfillment: Humanities Interdisciplinary course (18-19: Topic); Social Science Core Classic Problems in Social Science/Focus Political Economy/Political Science 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Social Science Core New Challenges in Social Sci
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 230 Science in Environmental Policy (4 Credits)

Science plays a fundamental role in environmental policy. It can put an issue on the political agenda, it often guides and underpins rationales for policy, while enabling us to monitor implementation. In short, science can provide a reason for humankind to act on environmental problems, while policy enables us to do so. Therefore, understanding how science translates into policy – from a theoretical, historical and practical perspective – and the role scientists play in doing so, is critical to understanding environmental governance. This course explores how the scientific process, as well as scientists themselves, influence environmental policy – from agenda setting, to legislation and implementation. In order to ground the discussion, the course will focus on specific issues (i.e., stratospheric ozone depletion, climate change, wilderness protection, etc.) as well as cover broad principles that are applicable to a wide range of issues (i.e., quantitative risk assessment, cost-benefit analysis, environmental impacts assessments, etc.). Assignments, readings, and in-class discussions will allow students to better understand the dynamics and challenges of the science-policy relationship. Prerequisite: None. Fulfillment: Social Science Focus Environmental Studies 200 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies

SOCS-SHU 232 International Law and Institutions (4 Credits)*Typically offered occasionally*

How does the application of international law by international institutions, and through treaties among states, contribute to the peace and well being of the peoples of the world? What are the sources of international law? Who says what international law is, and who may compel obedience? What areas of human life does international law address? What are the legal, political and moral foundations of international institutions such as the United Nations and the UN Security Council, the International Monetary Fund and the World Bank, the International Court of Justice and the International Criminal Court? In this course we examine core concepts in international law and crucial players in its formation and enforcement, and consider compelling critiques of its moral force and efficacy, focusing throughout the course on several international crises in recent history, to better understand these questions. Prereq: None Fulfillment: Social Science Focus International Relations/Political Science 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 234 Image as Evidence (4 Credits)*Typically offered occasionally*

Images surround us; we think through images, they shape our words and our worlds. Images entertain us, define us, haunt us. For all these reasons, images present a persistent problem for the social sciences—namely how to tame the force of images to provide evidence about the various worlds in which we as humans live, and in doing so, to push our methods and analyses beyond solely discursive modes of working and thinking. Through key readings and films, Image as Evidence explores the ways social scientists and others have wrestled with the image as a form of evidence in order to make otherwise hidden and invisible phenomena visible, to grasp nature, the senses, cognition, human suffering, and the movement of time. The course explores how images can be manipulated, meanings twisted, and truth (despite much aversion to the word) unmade. The effort of scholars to constantly renew their relationships to images challenges us to “look” differently, and in looking, helps us to consider our ethical and critical relation to the world. Prerequisite: None. Fulfillment: Social Science Focus Core New Challenges in Social Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core New Challenges in Social Sci

SOCS-SHU 236 The Chinese Family (4 Credits)*Typically offered every year*

The family, one of the key social units, has changed significantly over time around the globe. While traditional Chinese families were governed by Confucian ethics, Chinese families in the 20th century have also been shaped by state policies, modernization, and globalization. This course introduces students to family values and practices around marriage, reproduction, parenting, and intergenerational care in Chinese societies, especially in their modern history. It also contextualizes family values and practices and their transitions within broader demographic, social, and cultural changes in the Chinese and international settings. In this course, students engage with historical and modern cultural artifacts as well as scholarly work on Chinese families, and reflect on their own experiences with, observations of, and beliefs about Chinese families. In this way, students develop a nuanced way of understanding and analyzing family-related issues in the Chinese and global contexts. Prerequisite: Sophomore standing or above. Fulfillment: CORE SSPC or IPC; Social Science Classic Problems core; GCS Chinese History, Society and Culture.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Core Classic Problems in Social Sci
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 237 China Meets Europe (4 Credits)*Typically offered Spring*

The fast-developing relationship between China and Europe has become one of the most important in international affairs. While most geopolitical analyzes focus on great power politics such as US-China relations, the complexity of Sino-European interactions are central to this course. This course explores the intricate and evolving interactions between China and Europe, particularly within the context of contemporary global challenges. Starting with historical perspectives, the course delves into the development of Sino-European relations, examining policy decisions, trade dynamics, investment trends, human rights issues, migration patterns, and diplomatic engagements. By analyzing these dimensions, students will gain a comprehensive understanding of how China and Europe perceive and influence each other in the global arena. Prerequisite: None Fulfillment: Core IPC; Social Science International Relations track and Political Science track focus course 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 240 Survey Research Methods (4 Credits)*Typically offered every year*

This is an entry-level course that introduces key principles and practices of population-based probability sampling survey. Preferably, students should have already taken an introductory course in Social Science and/or a methods course before taking this one. The topics can be organized into four sections. The first section elaborates the logic of survey by explaining key concepts and practices of survey design. The second section deals with practical issues involved in the operation of survey, including questionnaire design, measurement, field administration, and modes of interviewing. The third section discusses how to manage survey data. Lastly, the course concludes with a brief overview of statistical analysis of survey data. This course will bring relevant concepts, principles, and practices "to life" by demonstrating a variety of widely-used social surveys as examples. Prerequisite: Sophomore standing or above. Fulfillment: Social Science Methods course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 241 Cultures of Business and Work (4 Credits)*Typically offered occasionally*

Anthropologists often study the unfamiliar cultural practices of marginalized people in faraway corners of the world. But what happens if we turn an analytical eye to powerful corporations, small businesses, and the workaday world of middle-income people as well? In this course we examine cultures of business – the norms, values, and unwritten rules of workplaces. We explore why factory floors in China are laid out how they are, why Japanese businessmen have to sing karaoke after work to get promoted, and why Silicon Valley success stories follow familiar narratives. In order to understand these diverse business settings, we examine major analytical approaches to business and work that focus on political economy, race, ethnicity, and gender. Throughout the class, we discuss what "corporate culture" and "office culture" mean, and consider the implications of this for anthropology's longstanding investigation into "culture" more broadly. Through seminar discussions, current event presentations, and a final case study paper, students develop their own analytical perspectives on business and work. Prerequisite: None. Fulfillment: Social Science Focus Anthropology 200 level; Business Non-finance/Non-marketing elective; IMB Business elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology

SOCs-SHU 242 Globalization and the Rise of China (4 Credits)*Typically offered Spring*

This dynamic course invites students to delve into the critical role of China within the international political economy as it rises to become a global economic leader. Through a comprehensive examination of China's unique economic model of state-led capitalism and its strategic maneuvers in a globally connected arena, students will engage with pivotal questions regarding China's ascent, the differentiation of its economic practices from other models, and its diplomatic strategies on the world stage. By analyzing China's influence on international organizations, its foreign aid strategies, and its impact on global trade, finance, and investment, participants will gain deep insights into the complex interplay of economic and political forces shaping our world. Prerequisite: None. Fulfillment: Social Science International Relations track and Political Science track focus course 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCs-SHU 244 Anthropology of Mental Illness (4 Credits)*Typically offered every other year*

In this course we will travel around the world, meeting people who have very different ideas about who is mentally ill, what is wrong with them, and how to help them. We will also examine one particular, Euro-American psychological culture that is being spread worldwide by pharmaceutical companies, humanitarian interventions, and mass media. We will begin by observing how contemporary psychologists diagnose and treat mental illness. Then we will read memoirs and ethnographic studies, seeing how people interpret psychological distress. Examining clinical trials, we will investigate how scientific knowledge is shaped by social and cultural forces including capitalism, inequality, and individualistic values. Finally, we will encounter new ideas about mental health emerging from social justice movements that integrate diverse perspectives on the mind. Prerequisite: Sophomore standing or above Fulfillment: Core STS; Social Science Anthropology and Global Health tracks 200 level focus course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology
- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

SOCs-SHU 245 Ethnographic Thinking (4 Credits)*Typically offered occasionally*

While ethnography—literally “to write” (grapho) “people” (ethnos)—has become synonymous with anthropology, it signifies a range of research methodologies widely used within the social sciences. The course considers discussions and debates about ethnographic research, ethics, and representation within the social sciences and beyond. The readings survey ethnographic theory and practice through a number of conceptual and methodological domains, including the problems they raise. Course topics are: objectivity, critiques of representation, participant-observation, cultural relativism, ethno-history, archives, conflict, interpretation and discourse analysis, verifiability, and life histories. Pre-requisites: None. Fulfillment: Social Science Core Classic Problems in Social Science; Humanities Introductory course (18-19: Topic).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Other Introductory Course
- SB Crse Attr: NYU Shanghai: Social Science Core Classic Problems in Social Sci

SOCs-SHU 247 Computational Urban Science (4 Credits)*Typically offered every year*

The concept of ‘digital smart city’ has been actively discussed in existing literature of computational urban science for its impacts around the globe. The essential research questions include: (1) what are key metrics to be included in promoting digital transformation of future cities? and (2) what role do the digital algorithms play in the construction of urban digitalization platforms that diagnose the sustainable operation of cities? This course first reviews the theoretical framework of smart city development and current trend on urban digitalization. Then the course introduces computational methods of urban science (focusing on urban computation and city digital algorithm) in the following three aspects: fundamental, urban scene, and city index. By investigating the relevant supporting algorithms, analyzing application scenarios in various societal backgrounds, selecting appropriate computational methods, this course brings forth the city vital sign system for diagnosing future urban transformation and new challenges for urban policy making. Prerequisite or Co-requisite: None. Fulfillment: Social Science Methods Course and 200 level Focus course for the Urban Studies Track.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 250 Why Is It So Hard to Do Good? (4 Credits)*Typically offered every other year*

Why is it so difficult to eliminate some of the greatest causes of human suffering—war, state-failure, poverty, and tyranny? This course examines moral and practical controversies over how we ought to respond to these problems. We will focus in particular on whether, and if so how, the international community is justified in intervening in poor and violent parts of the world. By the end of the course students will be better at analyzing and discerning the plausibility of policy proposals and ideas.

Prerequisite: None. Equivalent to CORES-AD-78 Fulfillment: Social Science Core New Challenges in Social Science

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Core New Challenges in Social Sci

SOCS-SHU 252 Ethics and Global Governance (4 Credits)*Typically offered occasionally*

Why is it so difficult to eliminate some of the greatest causes of human suffering—war, state-failure, poverty, and tyranny? This course examines moral and practical controversies over how we ought to respond to these problems. We will focus in particular on whether, and if so how, the international community is justified in intervening in poor and violent parts of the world. By the end of the course students will be better at analyzing and discerning the plausibility of policy proposals and ideas. Along the way we will learn much about China's growing role in leading and shaping global governance. Prerequisite: None. Fulfillment: Social Science Focus Political Science or International Relations 200 level; Humanities Interdisciplinary course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 253 Nature in Social Thought (4 Credits)

What's nature? What's our relationship to it? In this course, we examine various answers to these questions from past generations of social thinkers. We survey a range of texts from different parts of the world, written under different historical circumstances. We consider the ideas on these pages in their respective social and political contexts. Whereas some of the ideas are long gone with time, others become sediments of time – continuing to shape, and be shaped by, our thoughts and deeds. In fact, many of these ideas still inform and inspire empirical research and theoretical debates in the social sciences. As an introduction to environmental social theory, this course provides a selective overview of (1) the intellectual lineage of “nature” in different social scientific traditions, and (2) the ongoing empirical investigations into our relationship with nature in the Anthropocene. Prerequisites: Successful completion of GPS. Fulfillment: Social Science Core Classic Problems in Social Science; Social Science Focus Environmental Studies 200 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Core Classic Problems in Social Sci
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies

SOCS-SHU 254 Ethnographies of Change in China (4 Credits)

China's economic rise and shifting politics are shaping the world today, but how do these rapid changes affect daily life for the country's 1.4 billion people? In this class we focus on diverse daily experiences of work, family, gender and sexuality, poverty and wealth, ethnic difference, religion, political engagement, illness and wellness, and environment for people in contemporary China. We examine these topics through ethnography – cultural analysis based on close observation and interaction, presented in writing and film. We examine how Chinese reformers and revolutionaries aspired to change Chinese culture in the Republican Period and Mao years, as well as how foreign and native scholars have grappled with the overwhelming changes in everyday life since Reform and Opening Up. Students in this class develop an understanding of what cultural change means to Chinese people today. Prerequisite: None. SOCS-SHU 136 recommended but not required Fulfillment: CORE SSPC/HPC/IPC; Social Science Focus Anthropology 200 level; GCS Chinese History, Society, and Culture; Humanities Advanced Course (18-19: Topic).

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Humanistic Perspectives on China/China Arts-HPC/CA
- SB Crse Attr: NYU Shanghai: Humanities Other Advanced Course
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 255 The End of Authority: Politics in a Post-Truth Era (4 Credits)*Typically offered every year*

People have looked to a variety of “authorities” for verifiable, believable information around which they could build a worldview. In the 21st century those old sources of authority are in crisis, as the public simply refuses to believe what individuals and institutions assert to be true. Growing skepticism has eroded institutional authority, culminating in what’s been widely called “Post-Truth politics.” This course will examine the development of an intensely suspicious polity at the very time when more information, from more sources, than ever available in human history has changed the very act of “knowing.” This has created a perilous landscape for journalists, policy-makers, and citizens. We will examine what the public believes, why it believes, the increasingly tribal nature of “knowing” in the 21st century, and what this means going forward. Prerequisite: None. Sophomore standing is recommended but not required. Fulfillment: Social Science Focus Political Science and International Relations 300 level (only for Fall 2022).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SOCS-SHU 260 Contemporary Challenges in Global Health (4 Credits)***Typically offered every year*

This course is centered on current and future challenges pertaining to global public health in the areas of environmental and planetary health, girls’ and women’s health, and aging. Some topics covered during Introduction to Global Health will be revisited more in depth. This course encourages students to develop their critical and original thinking, their curiosity, creativity, collaboration, rigor, communication, and empathy. Prerequisite: SOCS-SHU 170 Introduction to Global Health. Fulfillment: Social Science Focus Global Health 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

SOCS-SHU 262 Digital Health, Digital Interventions (4 Credits)*Typically offered every year*

This course provides a landscape introduction to the burgeoning field of digital health and relevant interventions. From mobile applications and telehealth to virtual reality, artificial intelligence, and social media data, the course presents a bird’s eye-view to the emerging technologies poised to reshape public health and healthcare systems globally. Students will be presented with case studies from the leading researchers and entrepreneurs in the field and be guided to assess digital health technologies in terms of their opportunities and challenges to address real-world public health and healthcare challenges. Students will explore themes including ethical considerations, privacy concerns, accessibility, and the socio-economic and political factors influencing the development and implementation of digital health technologies. Towards the end of the course, students will participate in a fictional hackathon, gaining insights into the opportunities and challenges of digital health technologies in addressing real-world public health and healthcare challenges. Prerequisite: None. Fulfillment: Social Science Focus Global Public Health 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

SOCS-SHU 265 Population and Society (4 Credits)*Typically offered every other year*

This course offers an introduction to population study from a sociological perspective. It covers classic topics of fertility, mortality, and migration, and more contemporary extensions into the fields of population aging, gender inequality, marriage and families, and sustainable development. It also provides an overview of the data sources and basic methods commonly used in demographic research, including life tables and the calculation of life expectancy, fertility, and mortality rates. This course explores population issues in Chinese society and examines Chinese demographics in a global perspective. It aims to help students to understand the roots of population structures, processes, and consequences for individuals, families, and societies at the local, national, and global levels. Prerequisite: None. Fulfillment: GCS elective Chinese History, Society, and Culture; Social Science Focus Sociology 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: Chinese History, Society, and Culture
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 270 Social Change in Contemporary China (4 Credits)*Typically offered occasionally*

This course surveys post-1949 Chinese society, focusing on socioeconomic changes since 1978. It draws from scholarly work on China in sociology, economics, and political science. It explores the basic institutional make-up of Chinese society, the structural changes brought forth in the economic reform era, and how these institutions configure social life in contemporary China. Attention is paid to both changes from and continuities with the pre-reform past. After taking this course, students will be equipped with background information necessary to understand China’s complex economic, political, and social phenomena, and the impact of reform on social structures/institutions, individuals’ life chances, and social relations in contemporary China. Prerequisite: Sophomore standing or above required. Fulfillment: CORE SSPC or IPC; Social Science Core New Challenges in Social Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Core New Challenges in Social Sci
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 272 The U.S. Constitution: Is It relevant to China? (4 Credits)*Typically offered occasionally*

This course covers some basic political concepts and legal doctrines lying at the foundation the United States' Constitution, with the goal of assessing whether and to what extent these concepts and doctrines are relevant to China. The basic American concepts include the ideas of popular sovereignty and inalienable individual rights (in particular, freedom of speech), federalism, and separation of powers. The basic doctrines include judicial review to enforce the Constitution against "political" actors; Executive powers to act in the absence of, and interpret, legislation; Limits on the legislature's power to enforce legislation; and the duty of subnational officials to extend the equal protection of the laws to all citizens, regardless of race or geographic origin. In addition to examining these ideas using American sources, we will also apply them to present-day controversies in China, examining whether these American ideas might improve governance by Chinese officials or inform the interpretation of the Chinese Constitution. Students will be divided into two teams, one team supporting and the other team opposing the use in Chinese law and politics of some version of an American constitutional concept or doctrine. The teams will hold oral arguments, and each team member will submit four briefs of roughly 1,250 words each, attacking or defending four American positions arguing their team's positions on topics ranging from the powers of the Supreme People's Court to engage in judicial review to the powers of the Chinese executive to detain citizens without judicial process. Underlying both the discussion of American law and its application to Chinese controversies is a broader question: How is it possible for any law – mere words on a piece of paper – practically to control the actions of very powerful political actors like members of Congress, state legislatures, governors, Presidents, and judges? Prerequisite: None. Fulfillment: CORE SSPC (before Fall 20); Humanities Interdisciplinary course (18-19: Topic); Social Science Focus Political Science 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Humanities Advanced Course-Interdisciplinary Crse
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 275 US-China Relations (4 Credits)*Typically offered occasionally*

This course examines the complexities of the bilateral relationship between the People's Republic of China (China) and the United States (US), focusing on their historical rapport, major debates, and current relations. Topics include Sino-US economic relations, media reporting, variation in political systems, global politics, climate/energy issues, military affairs, and contested territories. Prerequisite: None. SOCS-SHU 160 is recommended, but not required. Fulfillment: Core SSPC or IPC; GCS China and the World/The Politics, Economy, and Environment of China; SS Focus International Relations/Political Science 200 level; HUMN 18-19 Topic.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 278 Finding Sociology in Chinese Cities: Shanghai and Hong Kong (4 Credits)*Typically offered every year*

This course combines historical narratives/documents, on-site observations, and statistical analyses to bring a specific set of Chinese cities (Shanghai and Hong Kong) to the fore of sociological analyses. Students are guided to read literatures in social science disciplines (primarily from sociology) on globalization, population and migration/immigration, inequalities/poverty, class, gender and family, neighborhood and housing, and urban social life and culture, to develop comparative and analytical frameworks to account for the similarities and differences between the two Chinese cities and beyond, and to gain contextual and deep understanding of social changes in China from the perspective of cities. After taking this course, students will be equipped with the historical background, comparative perspectives, and analytical skills to analyze complex issues in urban transformation and its impact on human life in the two cities. Prerequisite: Sophomore standing or above. Fulfillment: Core SSPC/IPC; Social Science focus Sociology or Urban Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 280 Population Issues in Asia (4 Credits)*Typically offered every year*

This course aims to provide students with an in-depth understanding of major population issues in contemporary Asia, including changing trends in family formation, gender inequality, and population aging. Students will learn about the socioeconomic and cultural factors that have shaped population dynamics in Asia and the implications of these changes. The course introduces major theoretical concepts and empirical research on population issues, with an emphasis on their relationship to social inequalities. Although the course also covers other Asian countries, it primarily focuses on East Asian countries. Students are expected to learn about core population issues in Asia and become familiar with social science research methods. Additionally, the course aims to help students develop critical thinking skills to evaluate and assess empirical research and evidence. Students are expected to complete all assigned readings before each class. Prerequisite: Sophomore Standing or above. Fulfillment: Social Science Focus Sociology 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 289 From Soil to Society: Exploring Earth Systems and Human Factors (4 Credits)*Typically offered Fall and Spring*

This course provides an examination of the interrelationships between society and the environment, framed through the lens of geographers. It offers students a deep dive into the multifaceted dimensions of the Anthropocene—the current geological epoch distinguished by significant human impacts on Earth's geology and ecosystems. Students will critically assess the methodologies employed in environmental science, challenging traditional disciplinary boundaries through an integrative approach that combines social and natural sciences. Prerequisite: None. Fulfillment: Core STS; Social Science Focus Environmental Studies 200 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies

SOCS-SHU 291 Language and Politics (4 Credits)*Typically offered Fall and Spring*

This course introduces you to various topics in the study of language and politics. We will explore three major themes: identity formation, communication, and development. First, we will examine the identity-defining roles of languages in the process of nation building, drawing on experiences from the modern Europe, post-colonial countries, former Soviet Union countries, and contemporary China. Second, we will examine how language rationalization contributes to state building by facilitating state-society communication. Finally, we will explore how language regimes affect economic outcomes from both macro and micro perspectives. This is a seminar-style course. You must complete all readings in advance of class meetings and participate actively in class discussions. Prerequisite: SOCS-SHU 150 Introduction to Comparative Politics OR SOCS-SHU 160 Introduction to International Politics. Fulfillment: Social Science Core course and Political Science 200 level focus course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 294 Infectious Diseases: From Pathogen to Pandemic (4 Credits)*Typically offered every year*

In an increasingly globalized world, the prevention and control of infectious diseases is becoming exceptionally complex. Emerging social, political and demographic changes in our population as well as dynamic changes in animal and vector populations and the environment have developed the prevention and control of infectious diseases into a multifaceted issue leading to new global challenges. Particularly concerning are new and re-emerging infectious diseases of pandemic potential (e.g., COVID-19) or of regional critical importance (e.g., Ebola). In this course, we will discuss and analyze the impact of infectious diseases from a geopolitical, economic, social, and environmental perspective, including governance preparedness, pandemic response, and policies in a post-COVID 19 world. Prerequisite: None. Fulfillment: Social Science Global Public Health Focus 200 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

SOCS-SHU 303 Aviation and Society (4 Credits)*Typically offered every year*

The invention of airplanes revolutionized the way the world is connected. In less than a century, an entirely new system of infrastructure and new patterns of movement emerged. What impacts does this have on society? On city development? On the environment? On health? On politics? On economics and business? What are the challenges we're facing today in each of these areas, and how can we address them? We'll learn about topics such as the rise of aviation, the industry's economic and business structure, its relationship to urban development, infrastructure and transportation planning, political debates, spatial relationships in cities, technological advancements in aviation, climate impacts and sustainability challenges. The course is interdisciplinary and appropriate for students from a range of backgrounds. Prerequisite: Sophomore status. Fulfillment: Social Science Focus Urban Studies 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 306 Pestilence: Critical Perspectives in Global Health (4 Credits)*Typically offered occasionally*

The course introduces students to problems of epidemic disease and disorder worldwide, and considers various efforts to define and address these problems. The course is designed to offer students a robust survey of literature (both classic and contemporary) concerned with threats to human health—and in doing so, engages an array of social science research perspectives and practices. The course considers the actors, institutions, and forms of knowledge at work in addressing epidemic disease and making “global health” today. By exploring the cultural, environmental, social, political, and epidemiological factors that shape patterns of disease and disorder across and between societies, the course allows students to analyze the systems and values that reinforce specific paradigms of global health policy and science, historically as well as in our present moment. Pre-requisites: None Fulfillment: CORE STS; Social Science Focus Global Health 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

SOCS-SHU 310 NYU Shanghai Summer Practicum (1 Credit)*Typically offered Summer term*

Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SOCS-SHU 315 From Theory to Practice: Program Development & Evaluation (4 Credits)***Typically offered occasionally*

This course provides an overview of the models, concepts, and skills used for the identification of population-based needs for public health intervention, development of programs to meet those needs, and evaluation of the effectiveness of these public health interventions. The course will follow the program planning framework for evidence-based public health programs in a global setting. Students will learn how to conduct needs assessments, develop logic models for planning programs based on community needs, identify goals and objectives that can serve as a foundation for program evaluation, and recognize models and procedures for evaluating community health programs. Prerequisite: SOCS-SHU 160 Intro to International Politics OR SOCS-SHU 150 Intro to Comparative Politics OR SOCS-SHU 170 Intro to Global Health OR SOCS-SHU 110 Intro to Sociology OR SOCS-SHU 130 Intro to Political Theory OR SOCS-SHU 135 Environment and Society OR SOCS-SHU 133 Urbanization in China OR PSYC-SHU 101 Intro to Psychology OR SOCS-SHU 136 Human Society and Culture. Fulfillment: Social Science Focus Global Health 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health

SOCS-SHU 316 Politics of Healing and Wellbeing (4 Credits)*Typically offered Fall*

In this course, we will explore how anthropologists study health and well-being by attending to connections with politics across varying scales—social, institutional, and governmental. Using ethnographies and public health research, we will examine the ideologies and priorities that form national and transnational health programs; how these forces shape and sometimes produce unintended effects on local delivery of care, with in-depth case studies from Sub-Saharan contexts; how the allocation of care and services can play out unequally, organized by colonial, structural, racial, and ethno-religious lines. Some of the topics we will cover include structural inequality, global health, therapy, politics of health, pandemics, health systems, care, risk, and pandemics. Prerequisite: One Social Science Foundational or Introductory Course

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SOCS-SHU 318 Ethnographic Methods (4 Credits)***Typically offered Spring*

This course is a practicum-based seminar in methods of ethnographic fieldwork and anthropological inquiry and writing. The course explores the conceptual and critical basis of ethnography through fieldwork assignments and readings. The approach of the course is both experiential and experimental—how do we build theories about the world and our place in it? How does anthropology secure evidence and meaning in ways that are empirical, comparative, and deeply theoretical? The course offers students the opportunity for creative and rigorous training in ethnographic methods as well as a chance to produce a piece of ethnographic work. Prerequisite: None. Fulfillment: Social Science Methods; Humanities 18-19 Topics; Data Science concentration in Social Science.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCS-SHU 326 Poverty and Inequality Around the Globe (4 Credits)*Typically offered Fall*

This seminar examines the causes and consequences of poverty and rising inequality around the globe. Students will study the ways in which poverty and inequality are shaped by multifaceted contexts; understand the theories underlying strategies and programs which address key poverty and inequality issues faced by many developed, developing and least developed countries; and learn about different countries' experiences addressing their own poverty and inequality issues. Students should be prepared to tackle advanced social science readings, analysis, and writing. Prerequisite: Sophomore standing or above. Fulfillment: Social Science Focus Political Economy/Sociology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 328 Sexuality in the Digital Age (4 Credits)

This course examines how digital technologies shape, and are shaped by, sexuality in global contexts. We will begin with foundational texts in sexuality studies and seek understanding of the construction and mutability of sexuality to foreground our discussions. In this seminar, we will focus on investigating and analyzing how emerging digital technologies, such as social media, dating apps, and VR, mediate and transform sexual practices and identities during the past two decades. We will cover a wide range of topics, including self, body and embodiment, mediated intimacy, spatiality, networking and dating, sexual labor, queer/trans identities, and video games. Prerequisite: Sophomore standing or above. Fulfillment: CORE STS; Social Science Focus Anthropology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Anthropology

SOCS-SHU 330 Urban Political Ecology (4 Credits)*Typically offered every other year*

As environmental crises intensify across the planet, and with more than half of humanity living in cities – perhaps two out of three by 2050 – the city is perhaps the key site where future ecological understanding and intervention is needed. However, as there is no such thing as an “apolitical” ecology, the task of considering the city ecologically presents a challenge. Knowledge about the nonhuman, biophysical world must be integrated with human social relations and the political processes that generate uneven and unjust urban landscapes. Our goal in the course is to take up this challenge, to develop a theoretically-informed understanding about cities, ecology, and power, and to apply this thinking in the development of a research project. Prerequisite: SOCS-SHU 135 Environment and Society or SOCS-SHU 133 Urbanization in China Fulfillment: Social Science Focus Environmental Studies, Political Science or Urban Studies 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 331 Politics in China (4 Credits)

This course examines the complexities of politics within China, focusing on the decline of dynastic China and the contemporary challenges of re-creating political order. Topics include rise of the Communist Party, political organization and policy in the People's Republic, role of ideology, foreign relations, the politics of modernization, and China's increasing integration into the world economy. This course is designed to introduce students to the political institutions and processes as well as major events in Chinese politics. In addition, students will be asked to develop a significant, writing-intensive research paper over the semester. Based on previous analytical frameworks from the study of political science, the course considers historical and current dynamics such as the changing roles of political institutions (government, bureaucracy, parliament and legal systems), party dynamics, politics of economic reforms, democratization and Chinese foreign affairs. Prerequisites: SOCS-SHU 150 OR 160 Fulfillment: CORE SSPC or IPC; Social Science Focus Political Science 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 332 Global Mental Health (4 Credits)*Typically offered every year*

Utilizing research from multiple fields including psychology, anthropology, sociology, medicine, public health and epidemiology, students will explore 1) approaches to the treatment and prevention of mental ill health and behavioral disorders, 2) the role of culture in mental illness, 3) epidemiological approaches to study and measure the prevalence and incidence of mental ill health, 4) trends in the field (e.g., implementation science), and 5) mental health among key populations (migrants). Readings in the course will focus on peer-reviewed research literature. A particular emphasis will be placed on research and case examples from Asian country contexts, so the course will have particular local and regional relevance. Prerequisite: Sophomore standing AND SOCS-SHU 170 Introduction to Global Health or PSYC-SHU 101 Introduction to Psychology Fulfillment: CORE STS; Social Science Focus Global Health or Psychology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Global Health
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

SOCS-SHU 333 Global Environmental Politics (4 Credits)*Typically offered occasionally*

This course examines the ethics, law, politics, and policy of global environmental issues. It provides a broad overview of the key concepts, debates, actors, and issues in global environmental politics. The course reviews the development of global environmental regimes in areas ranging from climate change to waste management. It equips students with conceptual depth and empirical breadth to critically examine the state of the global environment. Prerequisites: None. It is recommended, but not required, that students take SOCS-SHU 135 Environment and Society prior to enrolling in this course. Fulfillment: CORE STS; Social Science Focus Environmental Studies or International Relations 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Focus Environmental Studies
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations

SOCS-SHU 334 Legal Psychology (4 Credits)*Typically offered occasionally*

The course provides an overview of research in legal psychology and how it can be used to improve criminal investigations, legal processes, and judicial decision-making. For example, we consider factors that negatively affect the reliability of witness statements and what can be done to improve them, issues related to child witnesses and criminal investigations involving children, and criminal profiling and dangerousness assessment of offenders. The course adopts an interdisciplinary approach, examining the influence of organizational, societal and cultural factors on legal practices and procedures. The course ends with a mock trial, based on materials created from real criminal cases, in which students adopt the role of either a psychological expert or a lawyer. Pre-requisite: PSYC-SHU 101 Intro to Psychology OR SOCS-SHU 220 Law and Society in the US. Fulfillment: CORE STS; Social Science Core New Challenges in Social Science or Focus Psychology 300 level; Data Science Concentration in Psychology.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Psychology
- SB Crse Attr: NYU Shanghai: Science, Technology and Society
- SB Crse Attr: NYU Shanghai: Social Science Core New Challenges in Social Sci
- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

SOCS-SHU 339 Comparative Revolutions (4 Credits)*Typically offered occasionally*

Why do some countries experience revolution? What differentiates a revolution from a civil war, military coup, or foreign invasion? Importantly, how do various factors or variables come together to create revolution and can these constitute a generalizable theory of the emergence of revolution? This course is based on the study of revolutions in the modern context. Also, the course will hone your skills in social science writing, in qualitative comparative methods, and in theory building. We will define revolution and examine competing theories about its causes, outcomes, and processes. While examining the cases of France, Russia, and China, we will be particularly concerned about explaining why revolution occurs. We will then consider how more contemporary cases challenge or support those theories, focusing on the case of Iran and expanding the study to other cases while considering examples that might not fit our definition of revolution. As states face tumultuous change, the study of social movements and revolutions becomes particularly salient for both comparative politics and international affairs. Prerequisite: SOCS-SHU 160 or SOCS-SHU 150. Fulfillment: Social Science Focus Political Science 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 340 Comparative Constitutions (4 Credits)

How have the peoples of Germany, Iran and South Africa constituted their governments? What were the historical, political, and social constitutional moments (of revolution and war) that gave birth in these countries to written constitutions? We examine key provisions of these constitutions to understand what values they claim to impose on future generations. We ask why present generations should be constrained by the constitutional choices of a prior society. We look at constitutional practice, especially as it relates to: social-economic rights to education, housing or income; political association and speech; minority groups; the rights of women; and super-dominant political or religious or ethnic parties. Throughout, we ask how an "ideal constitutional citizen" of each country could decide whether an act of state power or a claim of right by a citizen is consistent with constitutional justice. We examine key constitutional language and important court decisions, particularly about human rights. And we look beyond the law--especially to film, but also to journalism and scholarly writing on politics and history--to seek the constitutional spirit of each country. Prerequisite: Sophomore standing required. Fulfillment: Social Science Focus Political Science 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCs-SHU 341 Cross-Strait Relations (4 Credits)*Typically offered occasionally*

The relationship across the Taiwan Strait has been a source of tension in East Asia for decades, not only between Taiwan and mainland China, but also as a potential flashpoint in the relationship between China and the United States. Furthermore, Taiwan's geostrategic position and territorial claims make it of interest to other states in the region. This course aims to introduce students to the complex sources of these tensions and the dynamics of these relationships, all of which are rooted in the two sides' closely linked histories. Students in this course develop a strong grasp of the dynamics of the cross-Strait relationship, including the role of the U.S., while honing their critical thinking and analytical skills through focused discussions of the readings and an independent final paper project. Pre-requisites: SOCs-SHU 150 Introduction to Comparative Politics or SOCs-SHU 160 Introduction to International Politics or GCHN-SHU 110 The Concept of China. Fulfillment: CORE SSPC or IPC; GCS China and the World; Social Science Focus Courses International Relations/Political Science - 300 level; Humanities 18-19 Topic Courses.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCs-SHU 345 Organizations and Society (4 Credits)*Typically offered occasionally*

Examples of complex organizations include hospitals, schools, places of employment, the government, the military, churches, and prisons. Where do those organizations come from? What accounts for organizational success and failure? How can we make organizations better for individuals and society? This course examines different types of organizations, organizational goals and outcomes, institutional authority and structure, organizational change, and organizational fields. Most importantly, the goal of this course is to expand your knowledge and understanding of the relationships between organizations and society. You will learn to develop a critical lens and an analytical framework that can apply to understand specific complex organizations. This course will help you to think about how you might better survive and thrive in our organizational world! Prerequisite: Sophomore Standing. Fulfillment: Social Science core or Sociology focus 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCs-SHU 350 Empirical Research Practice (4 Credits)*Typically offered Fall*

This is a hands-on course in conducting empirical research in behavioral and social sciences with a focus on quantitative methods. The course consists of two major components: First, students work in teams to address a research question provided by the instructor. The teams then plan a small-scale research project, collect empirical data, analyse the data and present the results in a Poster Session. Research projects can involve an experiment, a survey, an observational study or content analysis of empirical materials. The use of the internet as a data collection venue and source of raw materials to analyse is especially encouraged. Second, students write an individual research plan on a topic of their choosing. In some cases, the research plan can be further developed into a Capstone project. The teams are encouraged to make frequent use of instructor office hours for individual consultations. Pre-requisites: Sophomore standing or above required. PSYC-SHU 101 recommended but not required. Fulfillment: Social Science Methods course; Data Science concentration in Psychology.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Data Science Elective Concentration in Psychology
- SB Crse Attr: NYU Shanghai: Social Science Methods Course

SOCs-SHU 352 Society on Trial - Significant Legal Trials in History (4 Credits)*Typically offered Spring term of odd numbered years*

The course uses primary materials including trial transcripts, secondary scholarship in sociology, psychology and politics, and imaginative literature and film, to engage with ten notable legal trials. These include the trials of Socrates, Jesus, Joan of Arc, Galileo, the Salem Witches, Alfred Dreyfus and Oscar Wilde, and the Scopes "Monkey" Trial, the Moscow "Show" Trials, the Nuremberg Trials and the Central Park Five. Students will consider questions raised in these cases of truth and evidence, fair process and prejudice, authority and power, and justice and injustice, and the implications for contemporary society. Prerequisite: Sophomore standing or above. Fulfillment: Social Science Core/Focus Political Science 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core Course
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 353 Urban Design Studio: Pocket Space in Shanghai (4 Credits)*Typically offered every year*

The course teaches students how to participate in an urban design project in three steps. First is the introduction of design principles and precedent study phase. Students are expected to learn the basic concept of urban design and study existing urban design projects. Second is the design exercise phase. Students are required to sketch out design concepts and or use innovative ways to communicate their design concepts mapping geometry and urban space. They will present their design projects to design critics during the mid-term review. Third is the pocket space design phase. Students are required to further develop their design project at an architectural scale, for example, choose a pocket space or an urban block. The aim is to train students with the basic skill sets to participate in design competition, find design related summer internship, and apply for design and planning programs for graduate schools. Students are encouraged to learn the basic software such as Rhino or Sketch up but not required. Students are required to perform due diligent and spatial analysis of the site, in person or virtual. Pre-requisite/ Co-requisite: SOCS-SHU 133 Urbanization in China. SOCS-SHU 201 Planning Global Cities is recommended but not required. Fulfillment: Social Science Focus Self-Designed/Urban Studies 300 level; IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 360 The City and Society (4 Credits)

Are cities sites of individual opportunity and rich communal life, or sources of individual pathology and community decline? What social, economic, and political factors promote one outcome or the other? How do different groups fare in the urban context, and why? This course approaches the city from a social scientific perspective. It offers an introduction to sociological theories on the city and empirical strategies for studying the city. Students will participate in a group research project on Shanghai as part of the course requirement. A previous course in Social Science methodology or equivalent preparation is required. Prerequisite: Sophomore Standing or above. Fulfillment: Social Science Focus Sociology/Self-Designed-Urban Studies 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology
- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 361 Education and Society (4 Credits)*Typically offered every year*

This course aims to challenge and expand what you believe and know about the relationships between education and society. First, we will explore different theoretical approaches to understanding the educational system. We will examine the macro-level relationship between educational systems and aggregate social and economic development across different national contexts. Second, we will discuss the micro-level dynamics of student outcomes in relation to social background factors with a particular focus on the issues of social class, gender, and race/ethnicity. Finally, our investigation will touch upon recent heated debates over other related topics, including school choice, intensive parenting, and school reforms. Prerequisite: Introduction to Sociology or any other intro courses from Social Science ((Intro to Psych, Intro to Comparative Politics, Intro International Politics, Intro to Global Health, Intro to Political Theory, Urbanization in China, Human Society and Culture, Environment & Society). Fulfillment: Social Science focus course in the Sociology track (300 level).

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 370 China's Foreign Policy (4 Credits)

This seminar examines China's foreign policy from the end of the imperial era in the late 19th century, through the Republican period, and into the contemporary People's Republic. It aims to introduce students to broad theoretical perspectives on foreign policy from international relations scholarship, while also interrogating how well China's historical foreign policy behavior fits those general theories. Students in this course will engage with a number of questions about China in international affairs. For example, how important are local officials in China's foreign policy decision-making processes? Is China really a uniquely peaceful nation as its leaders often claim, or do existing theories sufficiently explain China's historical use of military force? What is different about the rise of China to great power status compared to the rise of other great powers? Should there be a "Chinese theory of international relations" Students in this course will examine these and other questions about China's place in the world while developing an independent final paper project focused on analyzing the course readings. Prerequisite: SOCS-SHU 160 Introduction to International Politics or GCHN-SHU 252 20th-Century East Asia-U.S. Relations. Fulfillment: CORE SSPC or IPC; Social Science Focus International Relations/Political Science 300 level; GCS China and the World/The Politics, Economy, and Environment of China.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: GCSE: The Politics, Econ, Environment of China
- SB Crse Attr: NYU Shanghai: Global China Studies Req'd China World Capstone
- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 375 Health and Society (4 Credits)*Typically offered every year*

How are health and illness shaped by society? What does it mean to be sick or cured? Who enjoys better health, and how does this reflect and reinforce social inequality? When do new technologies become part of treatment? This course provides an introduction to health from a sociological perspective. Students will learn how to use their sociological imagination to understand how health—a seemingly individual issue—is actually a social issue that reflects a larger social context. Course topics include medicalization, social construction of disease, health disparities, physician authority, health care, and medical ethics. This course draws a critical relationship between sociological theories and the empirical world. We will unpack health inequalities along the lines of class, race, gender, age, and geography. We will also discuss how agents can combat these inequalities through the medical and social systems. Prerequisite: Sophomore Standing or above. Fulfillment: Social Science Focus Sociology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 378 Feminist Social Theory (4 Credits)*Typically offered every year*

"Women hold up half the sky," as Mao famously said, but in almost every known society women have been subordinate to men and continue to suffer inequalities of power, resources, and recognition. In this course we survey feminist methods of social inquiry and analysis that offer explanations of why and suggest pathways to a more gender egalitarian future. Readings include classic and contemporary works of feminist theory and research in anthropology, economics, political science, psychology, sociology, law, philosophy, and urban studies. Students complete a literature review related to the course themes on a topic of their choosing. Prerequisite: Sophomore Standing. Fulfillment: Social Science Core Course Classic Problems and Political Science Focus 300 level course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Core Classic Problems in Social Sci
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 380 International Relations of the Asia-Pacific (4 Credits)*Typically offered every year*

This course provides a survey of some key issues in the international relations of the Asia-Pacific. The course is designed to provide an introduction to relevant theories, adequate historical background to operate in the region, as well as an understanding of current policy issues, such as the balance of power in the region, trade and economic integration, strategies of key states, alliance relationships, venues for regional cooperation, territorial disputes, and power competition between China and the United States. Prerequisite: SOCS-SHU 160 Introduction to International Politics Fulfillment: Social Science Focus International Relations or Political Science 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science

SOCS-SHU 383 Children and the Legal System (4 Credits)*Typically offered Spring*

Children, as a special and vulnerable population, can become victims, witnesses, and/or perpetrators of alleged crimes. Integrating child development research with psychology and law, this course concentrates on the scientific study of children's interaction with the legal system. The main goal is to provide students with an understanding of relevant theories, empirical findings, research methodology, and legal implications. Students will learn about developmental psychology research and how it can be used to understand and improve children's experiences when they come into contact with the legal system. Prerequisite: PSYC-SHU 101 Introduction to Psychology Fulfillment: Social Science Focus Psychology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Focus Psychology

SOCS-SHU 388 Chinese Social Stratification in Comparative Perspective (4 Credits)*Typically offered occasionally*

This research seminar combines a brief introduction to the modern research literature on social stratification and social mobility and discussion of scholarly work on inequality and stratification in contemporary China, with a focus on changes in the post-Mao era. Students will be led to read a set of the English-language publications, as represented by journal articles and book chapters in the field. After taking this course, students will be well-versed both in the long-term trajectory of research in this area and in the most recent themes and findings. The discussion of the general materials is expected to stimulate ideas and finally lead to a research paper on inequality, stratification and social mobility in China. Prerequisite: Junior/senior standing or ONE related course (SOCS-SHU 110 "Introduction to Sociology" or SOCS-SHU 227 "Inequality and Society". Fulfillment: CORE IPC; Social Science Focus Sociology 300 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Interdisciplinary Perspectives on China
- SB Crse Attr: NYU Shanghai: Social Science Focus Sociology

SOCS-SHU 391 International Investment in Developing Countries: China and Africa (4 Credits)

We explore issues frequently encountered by international legal counsel and business executives and government officials in cross-border investment transactions involving developing countries. We look particularly at issues in China and Africa. Topics include: multilateral development institutions and development banks, state-owned companies and "state capitalism," government ministries and the approval process, national security review and antitrust review, land and environmental issues, labor relations and unions, management compensation, due diligence and corruption, intellectual property protection, corporate governance and ownership structures, disclosure in public offerings, foreign exchange controls, private equity structures, cross border financing, political risk and political risk insurance, bilateral investment treaties, dispute resolution and choice of law, and (throughout) the role and ethical obligations of local and international legal counsel and business advisors. The course has three parts. First we study the highly developed and evolving Chinese inbound foreign direct investment regime. Second we look at risk issues in cross border project financing. Finally we reverse our perspective and consider issues from the standpoint of African countries considering Chinese outbound investments. Prerequisite: Sophomore standing or above Fulfillment: CORE SSPC; IMB Business Elective; Social Science Focus International Relations/Political Economy/Political Science 300 level; Business and Finance Non-Finance Elective; Business and Marketing Non-Marketing Electives.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: BUSF Non-Finance Elective
- SB Crse Attr: NYU Shanghai: BUSM Non-Marketing Elective
- SB Crse Attr: NYU Shanghai: IMB Business Elective
- SB Crse Attr: NYU Shanghai: Social Science Focus International Relations
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Economy
- SB Crse Attr: NYU Shanghai: Social Science Focus Political Science
- SB Crse Attr: NYU Shanghai: Social Science Perspective on China

SOCS-SHU 394 Slums, Suburbs, and Supertalls: Housing in the 21st Century (4 Credits)

Typically offered every year

Why do slums exist next to luxury towers? How can housing help fight climate change? What can local and national governments do to ensure their citizens have access to affordable housing? Why do cities with thousands of vacant homes also struggle with high rates of homelessness? In this course, students grapple with these questions and many others, developing a broad understanding of housing through a comparative, global lens. Students develop an understanding of the factors impacting housing's physical quality, design, location, and cost, and study how housing relates to the health of individuals, neighborhoods, and the wider economy. An emphasis is placed on identifying policy interventions that can improve housing outcomes. Prerequisite: Sophomore standing. Fulfillment: Social Science Urban Studies Focus 300 level.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Focus Urban Studies

SOCS-SHU 401 Social Science Senior Seminar (4 Credits)

Typically offered Fall

In the Social Science Senior Seminar, students work with a faculty facilitator to identify a capstone topic and to prepare a research proposal. In the SSS Seminar, students develop a research question, select a methodological approach, assemble a working bibliography, and identify a track. This Seminar prepares candidates to enroll in the Spring Capstone Seminar in a focused track. Prerequisite: Open only to Social Science major in the senior year. Fulfillment: Social Science Capstone Course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Capstone

SOCS-SHU 402 Social Science Capstone Seminar (4 Credits)

Typically offered Spring

Students design and conduct an independent research project in their area of focus using the theories, methods, and data with which they have become familiar over the course of completing the major. Prerequisite: SOCS-SHU 401 Social Science Senior Seminar. Open only to Social Science primary major in the senior year. Fulfillment: Social Science Capstone Course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Capstone

SOCS-SHU 411 Social Science Honors Independent Study (4 Credits)

Typically offered Spring

Candidates for major honors conduct independent research under the supervision of a faculty member in the Social Sciences. Open only to seniors who have been admitted to honors candidacy in Social Science. Prerequisite: SOCS-SHU 410, Social Science Capstone Honors Seminar. Fulfillment: Social Science Capstone course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Capstone

SOCS-SHU 430 Capstone Seminar: China and Politics (4 Credits)

Typically offered Spring

This seminar supports students in pursuing substantial, independent research projects focusing on China and its politics, broadly defined. Over the course of the semester, students formulate research questions, review relevant literature, gather data, and write and revise research papers, all in intensive individual consultation with the instructor. Seminar discussions in the first half of the semester, while students are formulating their projects and gathering data, focus on short readings and examples exploring different ways to approach the study of China. In the second half of the semester, students present preliminary findings and drafts for feedback from their peers and the instructor. Department Consent Required. Fulfillment: Social Science Capstone course.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Social Science Capstone

SOCs-SHU 431 Capstone Seminar: Politics, Political Economy, and International Relations (4 Credits)*Typically offered Spring*

In this seminar students design and conduct independent research projects with a focus on international political economy, international relations, and the intersection of global, regional, and domestic politics. Each project, tailored by individual students with the input from the instructor, will include a well-formulated research question, literature review, theoretical framing, methodological design, and analysis of information relevant to the research question. Topics generally will fall within the scope of international and comparative politics and political economy in the context of cross-disciplinary studies in Social Science. Department Consent Required. Fulfillment: Social Science Capstone course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Capstone

SOCs-SHU 432 Capstone Seminar: Psychology and Global Health (4 Credits)

Students design and conduct an independent research project in psychology or global health using the theories and methods with which they have become familiar over the course of completing the major. Department Consent Required. Fulfillment: Social Science Capstone course.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Social Science Capstone

SOCs-SHU 445 Topics in Society, Health & Medicine (4 Credits)*Typically offered occasionally*

Topics in Society, Health, and Medicine is a series of seminars designed to explore current scholarship in the social study of medicine drawn from history, anthropology, and public health science. One seminar a year is organized around a theme (e.g. aging, medical ethics, therapeutics, access to care) that determines the readings and guides the discussions. The series emphasizes contemporary problems in medicine viewed from a humanistic perspective. Spring 2021 Topic: Global Mental Health. Utilizing research from multiple fields including psychology, anthropology, sociology, medicine, public health and epidemiology, students will explore 1) approaches to the treatment and prevention of mental ill health and behavioral disorders, 2) the role of culture in mental illness, 3) epidemiological approaches to study and measure the prevalence and incidence of mental ill health, 4) trends in the field (e.g., implementation science), and 5) mental health among key populations (migrants). Readings in the course will focus on peer-reviewed research literature. A particular emphasis will be placed on research and case examples from Asian country contexts, so the course will have particular local and regional relevance. Prerequisite: Sophomore standing. Fulfillment: Trauma & Memory: Social Science Focus Anthropology 400 level. Global Mental Health: Social Science Focus Global Health 400 level.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SOCs-SHU 460 Topics in Urban Studies: (4 Credits)***Typically offered occasionally*

Prerequisite: None.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**SOCs-SHU 997 Independent Study (1-4 Credits)***Typically offered Fall and Spring*

1 to 4 credits. Students are permitted to work on an individual basis under the supervision of a full-time faculty member in the Social Science discipline if they have maintained an overall GPA of 3.0 and have a study proposal that is approved by a Social Science professor. Students are expected to spend about ten to twelve hours a week on their project for 4 credits. The results of the study are embodied in a report of a type required by the instructor. Prerequisite: permission of the department. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** Yes**SOCs-SHU 9237 Europe Meets China (4 Credits)***Typically offered Fall and Spring*

This course offers an in-depth exploration of the evolving interactions between China and Europe in the changing global environment, with a focus on contemporary economic and geopolitical challenges such as the rise of China, the shifting balance of power in international politics, and the securitization of non-conventional issues. The main objective of the course is to understand the responses and the types of actorness pursued by the EU and China at regional and world levels as well as the evolution of their relationship. The course also examines Europe's strategic autonomy within the China-US rivalry and the role played by the EU member states and European periphery states on EU-China relationship. Through case studies, guest speakers' talks, and field visits, students will engage critically with real-world examples of Sino-European relations, including the Huawei controversy and electric vehicle sanctions.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SOCs-SHU 9275 US-China Relations (4 Credits)***Typically offered Fall and Spring*

This course examines the complexities of the bilateral relationship between the People's Republic of China (China) and the United States (US), focusing on their historical rapport, major debates, and current relations. Topics include Sino-US economic relations, media reporting, variation in political systems, global politics, climate/energy issues, military affairs, and contested territories. Prerequisite: None. SOC-SHU 160 is recommended, but not required. Fulfillment: Core SSPC or IPC; GCS China and the World/The Politics, Economy, and Environment of China; SS Focus International Relations/Political Science 200 level; HUMN 18-19 Topic.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Spanish Language (SPAN-SHU)

SPAN-SHU 1 Elementary Spanish I (4 Credits)

Open to students with no previous training in Spanish and to others on assignment by placement test. Beginning course designed to teach the elements of Spanish grammar and language structure through a primarily oral approach. Emphasis is on building vocabulary and language patterns to encourage spontaneous language use in and out of the classroom. No prerequisite. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

SPAN-SHU 2 Elementary Spanish II (4 Credits)*Typically offered all terms*

Open to students who have completed SPAN-SHU 1 or the equivalent, or by Placement Exam. This course builds on the foundations of Spanish grammar and language through a balanced approach of the four skills, with emphasis on building vocabulary and language patterns to encourage spontaneous language use in and out of the classroom. After completion of this course, students take Intermediate Spanish I or Intensive Intermediate Spanish. Prerequisite: Spanish for Beginners I (SPAN-SHU 1, or equivalent) or placement. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SPAN-SHU 3 Intermediate Spanish I (4 Credits)***Typically offered every year*

Review of grammar, language structure, and culture, concentrating on fluency and accuracy through listening, speaking, reading, and writing activities. After completion of this course, students take SPAN-SHU 4. Prerequisite: Spanish for Beginners II (SPAN-SHU 2 or equivalent), Intensive Elementary Spanish (SPAN-UA 10), or placement. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SPAN-SHU 10 Intensive Elementary Spanish (6 Credits)***Typically offered Fall and Spring*

This is a one-semester intensive course that covers the equivalent of one year of elementary Spanish in one semester. 6 points. Open to students with no previous training in Spanish and to others on assignment by placement test. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SPAN-SHU 20 Intensive Intermediate Spanish (6 Credits)**

Promotes proficiency in reading and writing as well as oral performance. This course is an intensive intermediate course that covers the equivalent of one year of intermediate Spanish (SPAN-UA 3 and SPAN-UA 4) in one semester. Prerequisite: Intensive Elementary Spanish or Instructor Permission. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SPAN-SHU 100 Advanced Spanish Grammar and Composition (4 Credits)***Typically offered occasionally*

Expands and consolidates students' lexical and grammatical understanding of the language and introduces them to the fundamental principles of expository writing as they apply to Spanish. Utilizes exercises, readings, and intensive practice of various prose techniques and styles. Prerequisite: Intermediate Spanish II (SPAN-UA 4) OR Intensive Intermediate Spanish (SPAN-SHU 20), or assignment by placement test, or permission of the director of language programs. For non-native speakers only. Equivalent courses: SPAN-UA 100 (NY), SPAN-UA 9100 (Madrid & Buenos Aires) Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SPAN-SHU 101 Advanced Spanish Conversation (4 Credits)***Typically offered all terms*

Intensive course in spoken Spanish, designed to give the student fluency in the use of idiomatic, everyday language as well as a comprehensive, practical vocabulary. For non-native speakers only. Advanced Spanish Conversation is a four-credit advanced-level course designed to expand students' speaking skills beyond the practical, day-to-day language functions. The aim is to achieve a more elaborate and abstract use of the language through the practice of pronunciation, vocabulary, idioms, and structures, within the contexts of selected subject areas. Although the main concentration of the course is on the oral component, reading and writing skills are practiced as well, as a basis for oral expression. The goal of the course is to generate active participation through thought-provoking discussions and creative activities that stimulate critical thinking as well as conversation. This is achieved through authentic readings from contemporary sources — newspapers, magazines, literature, films, music, videos, etc. — that sensitize students to the actual concerns of Spanish. A process of recording, transcribing and editing actual conversations will also help students better their Spanish. Finally, various listening comprehension activities will be included to fine tune the student's ear to Spanish sounds. Prerequisite: SPAN-UA 4 or SPAN-SHU 20 or SPAN-UA 9020. Fulfillment: General elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No**SPAN-SHU 110 Techniques of Translation (4 Credits)***Typically offered occasionally*

This course will explore the principles and problems of translation through readings and in-class workshops. The theory will concentrate on ideas and issues about translation from the 20th and 21st centuries. Students will develop their skills in Spanish to English and English to Spanish translation by working with different types of genre, such as poetry, short story, film, advertisements, academic articles, and technical documents. Theoretical questions and problems will be addressed in the readings and discussed in class as they arise within the translation exercises. Reading assignments are in Spanish and in English, but the discussions will be conducted entirely in Spanish. In-class workshops will focus on practice that highlights the difficulties of translating from one language into another. Special attention will be paid to the structural differences between English and Spanish; the significance of tone and style; the author's "voice" and the translator's "ear"; and the on-going issues of fidelity, literalness, and freedom. Prerequisite: SPAN-SHU 30 (SPAN-UA 100) Advanced Grammar and Composition, or permission of the instructor. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Study Away Lectures (SAS-SHU)

SAS-SHU 100 China in the Headlines (2 Credits)

Typically offered occasionally

Choosing and interpreting relevant information from the myriad global and local news is always difficult. It is especially daunting in a foreign country where one typically lacks the necessary historical and cultural context. Students come to China with at best an incomplete knowledge of Chinese history, culture, politics, environmental concerns, economy, etc., exacerbated by the challenge of identifying reliable sources of information on many of these topics. The course will address that through readings and lectures as well as documentary and popular films on a variety of topics. Each lecture, discussion, or film will provide relevant information and background on a significant issue for China. Topics will range from business to politics, the environment to the economy, history to current films. Students will be required to attend a dozen of the more than twenty talks and films and write two short reflection papers, one on a topic from the first half of the semester and a second on a topic from the second half of the semester. Prerequisites: There are no prerequisites for the course but enrollment is limited to study away students.

Grading: Ugrd Shanghai Pass/Fail

Repeatable for additional credit: No

World Languages (ENG-D-SHU)

ENG-D-SHU 101A Deans' Service Scholars: Language & Power (2 Credits)

Typically offered Fall

Linguist James Paul Gee has described English language teachers as standing, "at the heart of the most crucial educational, cultural, and political issues of our time." This Deans' Service Scholars course places students at the intersection of service learning, English language teaching, and critical applied linguistics. It is designed to integrate experiential learning with an exploration of the broader forces which influence educational settings. The course is both a study and application of service-learning, a pedagogy combining academic inquiry and engagement with a community outside the university. In the fall semester, with the support of faculty and in partnership with a local volunteer organization, Scholars will teach English at a local school for migrant communities in Shanghai. At the same time, through discussion seminars, readings, and reflective writing, Scholars will explore the social, cultural, and political factors which often intersect with language teaching, and consider how these factors operate in the context of their service learning project. Seminar topics will include linguistic imperialism, language stigma and status, English as a lingua franca, and the recent rise of global Englishes. In the spring semester, Scholars will organize a community engagement project which is based on their experiential and course learning in the fall. Through coursework, volunteer teaching, and community engagement, Scholars will also gain experience in the pedagogical and service approaches of Project-Based Learning (PBL) and Participatory Action Research (PAR). Notes: Application is required for course enrollment. The link can be accessed on the course webpage. Language and Power course webpage, <https://shanghai.nyu.edu/page/language-and-power>. Prerequisite: None. Fulfillment: General Elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

ENG-D-SHU 101B Deans' Service Scholars: Language & Power (2 Credits)

Typically offered Spring

Linguist James Paul Gee has described English language teachers as standing, "at the heart of the most crucial educational, cultural, and political issues of our time." This Deans' Service Scholars course places students at the intersection of service learning, English language teaching, and critical applied linguistics. It is designed to integrate experiential learning with an exploration of the broader forces which influence educational settings. The course is both a study and application of service-learning, a pedagogy combining academic inquiry and engagement with a community outside the university. In the fall semester, with the support of faculty and in partnership with a local volunteer organization, Scholars will teach English at a local school for migrant communities in Shanghai. At the same time, through discussion seminars, readings, and reflective writing, Scholars will explore the social, cultural, and political factors which often intersect with language teaching, and consider how these factors operate in the context of their service learning project. Seminar topics will include linguistic imperialism, language stigma and status, English as a lingua franca, and the recent rise of global Englishes. In the spring semester, Scholars will organize a community engagement project which is based on their experiential and course learning in the fall. Through coursework, volunteer teaching, and community engagement, Scholars will also gain experience in the pedagogical and service approaches of Project-Based Learning (PBL) and Participatory Action Research (PAR). Prerequisite: ENG-D-SHU 101A. Fulfillment: general elective.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

Writing (WRIT-SHU)

WRIT-SHU 101 Writing as Inquiry: WI (4 Credits)

Typically offered Spring

Critical inquiry is the heart of a liberal arts education, and writing is this inquiry manifested on the page. In NYU Shanghai's first-year writing course, students will read texts and respond by writing their own. In doing so, they will add their critical perspectives to ongoing academic and public conversations. Students will work to write sophisticated and cogent prose, and learn to effectively incorporate written texts in the development of their own arguments. Class discussions will include strategies for every step of the writing process—from invention and organization to research and revision. In a workshop setting, students will analyze the work of their peers and respond to feedback on their own writing. By the end of the course, students should be able to dissect difficult textual material, recognize rhetorical strategies and genre conventions, and build clear and convincing arguments that matter both within and beyond academic contexts. In WI, we will spend additional time focusing on areas of rhetoric, grammar, and style that are relevant to second language writers. Prerequisite: Writing placement result and Shanghai freshman. Fulfillment: CORE Writing requirement.

Grading: Ugrd Shanghai Graded

Repeatable for additional credit: No

- SB Crse Attr: NYU Shanghai: Writing

WRIT-SHU 102 Writing as Inquiry (4 Credits)*Typically offered Spring*

Critical inquiry is the heart of a liberal arts education, and writing is this inquiry manifested on the page. In NYU Shanghai's first-year writing course, students will read texts and respond by writing their own. In doing so, they will add their critical perspectives to ongoing academic and public conversations. Students will work to write sophisticated and cogent prose, and learn to effectively incorporate written texts in the development of their own arguments. Class discussions will include strategies for every step of the writing process—from invention and organization to research and revision. In a workshop setting, students will analyze the work of their peers and respond to feedback on their own writing. By the end of the course, students should be able to dissect difficult textual material, recognize rhetorical strategies and genre conventions, and build clear and convincing arguments that matter both within and beyond academic contexts. Prerequisite: Shanghai freshman. Fulfillment: CORE Writing requirement.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Writing

WRIT-SHU 201 Perspectives on the Humanities (4 Credits)*Typically offered Fall*

In NYU Shanghai's second-year writing course, students engage with and apply the methods of humanistic inquiry, interpretation, and argumentation that are central to a liberal arts education. Through topic-based seminars, Perspectives on Humanities reinforces critical writing and reading skills by emphasizing close, interpretive readings of narrative and non-narrative genres that generally serve as objects of humanistic inquiry. Further, this course emphasizes the analytical application of theoretical criticism to the interpretations of primary texts. Students build on the rhetorical awareness, writing habits, critical thinking skills, and conventional knowledge learned in the first-year Writing as Inquiry workshop. This course further reinforces students' abilities to develop viable research questions, discover and incorporate secondary sources, and present reasonable claims. Prerequisite: C or better in WRIT-SHU 102 Writing as Inquiry. Students cannot register for more than one section of PoH. Fulfillment: CORE PoH.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: Perspectives on the Humanities

WRIT-SHU 240 Storytelling with Data Visualization (4 Credits)*Typically offered Spring*

This interdisciplinary course introduces students to the development, design, and use of visualized data in storytelling narratives or persuasive arguments. Students will create and critique multi-modal genres containing ideographic or other visual modes of communication. Students will adapt rhetorical principles, such as audience, invention, arrangement, and delivery, for working with datasets and quantitative evidence. Students will practice a variety of methods for presenting visual data in various media. Depending on the instructor's expertise, different iterations of the course will focus on different types of datasets (e.g., scientific, public health and policy, business statistics, etc.); different genres (e.g., journalistic, policy, and public health); and different visualization methods and technologies. Prerequisite: A final grade of C or higher in: Writing as Inquiry OR INTM-SHU 103 Creative Coding Lab OR CSCI-SHU 101 Introduction to Computer Science and Data Science. Fulfillment: IMA elective; IMB major IMA/IMB elective.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

WRIT-SHU 245 Digital Storytelling: Lessons of the Out of Eden Project (4 Credits)*Typically offered occasionally*

In this seminar and workshop, students use digital storytelling techniques and technologies to capture and make sense of the world around them. Students will use the affordances of various technologies to enhance the impact of their stories. In addition to attending to traditional elements of storytelling, such as language, structure, and style, students will incorporate image, sound, haptics, and design of various media interfaces. Different semesters will focus on different themes or story topics Prerequisite: A final grade of C or higher in Writing as Inquiry Fulfillment: IMA elective; IMB major IMA/IMB Elective; designated elective for Creative Writing.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

- SB Crse Attr: NYU Shanghai: IMA Elective
- SB Crse Attr: NYU Shanghai: IMB Interactive Media Arts/Business Elective

WRIT-SHU 275 Comparative Cultural Rhetorics (4 Credits)*Typically offered occasionally*

This course examines, compares, and contrasts the practices that specific cultures and communities use to make persuasive arguments and the meaningful objects that these cultures and communities produce. Students analyze and create persuasive texts in light of the cultural practices studied. Different sections of the course compare the relations among different cultural communities. Examples of course topics may include Ancient Greek and Ancient Chinese rhetorical traditions; contemporary Asian-American and Latinx rhetorical traditions; feminist and LGBTQ+ rhetorical traditions; different religious communities or cultures Prerequisite: A final grade of C or higher in Writing as Inquiry Fulfillment: Creative Writing Minor.

Grading: Ugrd Shanghai Graded**Repeatable for additional credit:** No

Facilities

Qiantan New Bund Campus

NYU Shanghai's new 114,000-square-meter campus is located in Pudong's Qiantan neighborhood, also called The New Bund. Composed of four interlocked structures set around an academic quadrangle, the award-winning campus—designed by Kohn Pedersen Fox and the Arcplus Institute of Shanghai Architectural Design & Research—serves as not only an academic base for the NYU Shanghai community but also a cultural hub for the Qiantan district.

The nine-story campus was designed to express the university's cosmopolitan spirit, integrating multiple architectural and cultural traditions; its courtyard integrates the Western 'cloister'-inspired quadrangle and the Chinese Scholars' Garden. Some facilities include a 5,000 square-meter library, 4,000-square-meter athletics space including a fitness center and two gymnasiums, a colloquium space, a state of the art recital hall, a 600-person auditorium, the NYU Shanghai Institute of Contemporary Arts with 600 square meters of exhibition space, a multi-level open space canteen that can seat several hundred diners, and classroom spaces that accommodate a range of students—from dozens to hundreds—with advanced digital equipment to meet the needs of online, offline and mixed-mode teaching.

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Zhongbei Campus

The NYU-ECNU joint research institutes (<https://research.shanghai.nyu.edu/>) at NYU Shanghai are located in the Geography Building at East China Normal University. For more information about working at the Zhongbei Campus, please reference the FAQs (<https://shanghai.nyu.edu/about/campus/zhongbei/faqs/>).

Residence Halls

NYU Shanghai students live in newly constructed apartment towers in the Houtan Area, located 2.3km from the Qiantan New Bund campus, a 10-minute drive or 15-20 minute bike ride away. The room types are designed for apartment-style living where students have their own private bathroom, kitchen, and living area. Students can select between single or double occupancy in suites or single, double, and triple occupancy

studios. The neighborhood features a community center with food and gym offerings, green space, and a vibrant community.

In the Residence Halls, students are supported by a Resident Assistant (RA) or peer mentor. By living alongside fellow students and RAs, students form intimate living and learning communities that promote a holistic education and an exchange of ideas to continue and flourish beyond the classroom.

Programs

- Biology (BS) (p. 250)
- Biology (Minor) (p. 252)
- Business (Minor) (p. 253)
- Business and Finance (BS) (p. 253)
- Business and Marketing (BS) (p. 256)
- Chemistry (BS) (p. 258)
- Chemistry (Minor) (p. 261)
- Chinese Language (Minor) (p. 262)
- Chinese Language and Literature (Minor) (p. 263)
- Computer Science (BS) (p. 263)
- Computer Science (Minor) (p. 265)
- Computer Systems Engineering (BS) (p. 266)
- Computer Systems Engineering (Minor) (p. 268)
- Creative Writing (Minor) (p. 268)
- Creativity and Innovation (Minor) (p. 269)
- Data Science (BS) (p. 270)
- Data Science (Minor) (p. 272)
- Economics (BA) (p. 273)
- Economics (Minor) (p. 276)
- Electrical and Systems Engineering (BS) (p. 277)
- Electrical and Systems Engineering (Minor) (p. 278)
- Global China Studies (BA) (p. 279)
- Global China Studies (Minor) (p. 282)
- History (Minor) (p. 283)
- Honors Mathematics (BS) (p. 283)
- Humanities (BA) (p. 285)
- Humanities (Minor) (p. 289)
- Interactive Media + Business (BS) (p. 290)
- Interactive Media Arts (BS) (p. 294)
- Interactive Media Arts (Minor) (p. 297)
- Interactive Media Business (Minor) (p. 299)
- Literature (Minor) (p. 301)
- Mathematics (BS) (p. 302)
- Mathematics (Minor) (p. 304)
- Neural Science (BS) (p. 304)
- Neural Science (Minor) (p. 308)
- Philosophy (Minor) (p. 308)
- Physics (BS) (p. 309)
- Physics (Minor) (p. 311)
- Self-Designed Honors (BA) (p. 311)
- Social Science (BA) (p. 313)
- Social Science (Minor) (p. 317)

Trivium and Quadrivium

In the Middle Ages and the Renaissance, the seven liberal arts were divided into two categories, known as the “trivium” (grammar, logic, rhetoric) and the “quadrivium” (arithmetic, astronomy, geometry, music). At NYU Shanghai, we have several programs that fall within these two categories where students can enrich their studies by exploring a language, creative writing or journalism courses, and the performing arts.

English for Academic Purposes (p. 115)

Languages

- Arabic Language
- Chinese Language (p. 70)
- French Language (p. 132)
- Japanese Language (p. 187)
- Korean Language (p. 189)
- Spanish Language (p. 245)

Performing Arts

- Art (p. 40)
- Music (p. 203)

Writing

- Creative Writing (p. 89)
- Journalism (p. 188)
- Writing (p. 247)

Biology (BS)

CIP: 26.0101

Program Description

Biology is concerned with the workings of life in all its varied forms. Over the past few decades, the life sciences have been revolutionized by the development of molecular, cellular, genomic, and bioinformatics techniques that are now being utilized to study fundamental processes in organisms as well as applying this information to improve human health, enhance rational management of our environment, develop forensic science, and augment the production of renewable energy with the concomitant sequestering of pollutants, as well as approach ethical and legal issues that impinge on biological discoveries and their applications. The Biology curriculum aims to produce scientists with inquisitive minds who are self-reliant and who seek high quality of information about how the natural world works.

Building on the foundational science courses in chemistry, physics, biology, students in the Biology major learn to use the contemporary tools and approaches that are available to solve problems in areas of the current life sciences. In developing the major, we are first focusing on covering the essential “pillars of biological concepts”: molecular and cellular biology, genetics, and evolution. We also ensure that students are trained in modern methods of quantitative and computational analysis. The major is structured so that students can take a diversity of upper-level courses upon completion of the core courses. These intermediate and advanced courses provide a broad and intensive background in modern biology for those interested in careers in research, health-related fields, biotechnology, and education, among others. The biology major

allows students to pursue independent research that could lead to an undergraduate thesis.

The Biology program at NYU Shanghai has strong interactive ties with the Department of Biology and the Center for Genomics and Systems Biology at NYU in New York, and the Biology program at NYU Abu Dhabi, as well as with other laboratories across NYU’s global network.

Admissions

New York University’s Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Science</i>		
Experimental Discovery in the Natural World Requirement Fulfilled by Major Coursework		
Science, Technology, and Society Requirement Fulfilled by Major Coursework		
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
Foundational Courses		
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
or CHEM-SHU 128	Foundations of Chemistry II Lab	
PHYS-SHU 11	General Physics I	3
or PHYS-SHU 91	Foundations of Physics I Honors	
PHYS-SHU 12	General Physics II	3
or PHYS-SHU 93	Foundations of Physics II Honors	
PHYS-SHU 71	Foundations of Physics Lab I	2
PHYS-SHU 94	Foundations of Physics Lab II	2
Required Courses		
BIOL-SHU 250	Organismal Systems	4
BIOL-SHU 998	Integrated Science Capstone	4

CHEM-SHU 225	Organic Chemistry I	3
CHEM-SHU 225L	Organic Chemistry I Lab	2
NEUR-SHU 100	Math Tools for Life Sciences	4
Biology Electives		
Select five elective courses from the list below		20
BIOL-SHU 30	Genetics (Select five elective courses from the list below)	
BIOL-SHU 31	Genetics Laboratory	
BIOL-SHU 261	Genomics and Bioinformatics	
BIOL-SHU 263	Developmental Biology	
BIOL-SHU 271	Cell biology: body's battle with cancer	
BIOL-SHU 314	Advanced Cell Biology Lab	
BIOL-SHU 997	Independent Study – Biology	
CHEM-SHU 881	Biochemistry I	
CHEM-SHU 882	Biochemistry II	
NEUR-SHU 201	Introduction to Neural Science	
Electives		21-29
Total Credits		128

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
PHYS-SHU 11 or PHYS-SHU 91	General Physics I or Foundations of Physics I Honors	3
CHEM-SHU 125	Foundations of Chemistry I	3
PHYS-SHU 71	Foundations of Physics Lab I or Core Language Course (recommended)	2 or 4
Credits		16-18
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
BIOL-SHU 21	Foundations of Biology I	3
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 128	Foundations of Chemistry II Lab	2
Core Course or EAP or Chinese		4
Credits		16
3rd Semester/Term		
CHEM-SHU 225	Organic Chemistry I	3
CHEM-SHU 225L	Organic Chemistry I Lab	2
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
WRIT-SHU 201	Perspectives on the Humanities	4
Core Language Course or PHYS-SHU 71 Foundations of Physics Lab I		4
Credits		18
4th Semester/Term		
PHYS-SHU 12 or PHYS-SHU 93	General Physics II or Foundations of Physics II Honors	3
PHYS-SHU 94	Foundations of Physics Lab II	2
BIOL-SHU 250	Organismal Systems	4
NEUR-SHU 100	Math Tools for Life Sciences	4
Chinese or EAP		4
Credits		17
5th Semester/Term		
Biology Elective		4

Biology Elective		4
General Elective		4
Chinese or General Elective		4
Credits		16
6th Semester/Term		
Biology Elective		4
General Elective		4
General Elective		4
General Elective		4
Credits		16
7th Semester/Term		
BIOL-SHU 998	Integrated Science Capstone	4
Biology Elective		4
General Elective		4
General Elective		2
Credits		14
8th Semester/Term		
Biology Elective		4
General Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		129-131

Learning Outcomes

Upon successful completion of the program, students will display:

- Demonstrate an understanding of core knowledge in the biological sciences, particularly the concepts and mechanisms underlying how cells work, how heredity and evolution work, and how multicellular organisms develop, function and reproduce. This corresponds to Bloom Levels 1 and 2.
- Use and apply these concepts and knowledge to new situations or datasets to solve problems. This corresponds to Bloom level 3.
- Analyze data (e.g. from experiments or observations) and synthesize or construct models (hypotheses) to explain how a biological system works. Students will also be able to demonstrate facility at experimental design and analysis using the scientific method by generating ways of testing predictions from hypotheses and critically determining what would remain untested. This objective corresponds to Bloom Level 4 in the “New Bloom’s Taxonomy” (levels 4 & 5 in the “Old Bloom’s Taxonomy”).
- Create their own scientific works, critically evaluate their own works—as well as those of their peers and works from the current literature—and effectively communicate these evaluations in spoken and written form. This objective corresponds to Bloom Levels 5 & 6.
- Demonstrate a basic spectrum of technical skills commonly used in modern biological sciences, such as micropipetting, performing biological reactions, running electrophoretic gels and culturing bacterial or other cells.
- Demonstrate literacy in statistics and an ability to conduct relevant statistical tests, literacy in basic calculus, and optimally some literacy in bioinformatics.

Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English

- for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II . Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
2. Not all approved major electives are listed. Students should contact the advisors for major electives offered in other campus/study away sites.
 3. Note that one 4-credit Independent Study is allowed to count towards the Biology major elective.
 4. Students pursuing pre-health careers should take Organic Chemistry II and Organic Chemistry II Lab in their 4th semester.

Prerequisite Course for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Foundations of Biology I.

Double Major Guidelines

Biology and Data Science Double Major GuidelinesStudents who are interested in pursuing a Data Science major along with a Biology major, a Business major, an Economics major, a Mathematics major, a Neural Science major or a Social Science major have the option to double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

Biology and Data Science (Concentration in Genomics)

- MATH-SHU 140 Linear Algebra
- MATH-SHU 235 Probability and Statistics
- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 Foundations of Biology Lab
- BIOL-SHU 261 Genomics and Bioinformatics

Note: Students who take Linear Algebra and Probability and Statistics are not allowed to take the lower level Math Tools for Life Science course. If you have not decided yet to pursue a double major and take Math Tools for Life Science first, you are required to take Linear Algebra and Probability and Statistics.

Biology and Neural Science Double Major

Students can not double major in Biology and Neural Science.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Biology (Minor)

Program Description

Biology is concerned with the workings of life in all its varied forms. Over the past few decades, the life sciences have been revolutionized by the development of molecular, cellular, genomic, and bioinformatics techniques that are now being utilized to study fundamental processes in

organisms as well as applying this information to improve human health, enhance rational management of our environment, develop forensic science, and augment the production of renewable energy with the concomitant sequestering of pollutants, as well as approach ethical and legal issues that impinge on biological discoveries and their applications. The Biology curriculum aims to produce scientists with inquisitive minds who are self-reliant and who seek high quality of information about how the natural world works.

Program Requirements
Molecular and Cell Biology Minor

Course	Title	Credits
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
Select one of the following:		4
BIOL-SHU 30	Genetics	
BIOL-SHU 263	Developmental Biology	
Select one of the following:		4
BIOL-UA 37	ATB: Cell Biology	
Another approved class		
Total Credits		16

Genomics and Bioinformatics Minor

Course	Title	Credits
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
BIOL-SHU 261	Genomics and Bioinformatics	4
Select one of the following:		4
BIOL-GA 1128	Systems Biology	
BIOL-UA 58	Evolution	
Total Credits		16

Policies
Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Note: Minor between biology and neuroscience is not allowed.

Business (Minor)

Program Description

The business program at NYU Shanghai is designed to provide students with comprehensive preparation for the modern globalized business world. It builds upon the liberal education designed into the NYU Shanghai core curriculum. Before entering the major, students will have developed an essential set of skills in mathematics, critical thinking, and oral and written communication. They will also have acquired a familiarity with the general cultural and scientific contexts in which businesses operate.

Program Requirements

Non-Economics Majors

Course	Title	Credits
Required Courses		
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 250	Principles of Financial Accounting	4
ECON-SHU 3	Microeconomics	4
ECON-SHU 251	Economics of Global Business	4
Electives		
Select one of the following:		4
BUSF-SHU 142	Information Technology in Business & Society	
BUSF-SHU 202	Foundations of Finance	
BUSF-SHU 210	Business Analytics	
BUSF-SHU 303	Corporate Finance	
BUSF-SHU 351	Operations Management	
MGMT-SHU 301	Management and Organizations	
MKTG-SHU 1	Introduction to Marketing	
Total Credits		20

Economics Majors

Course	Title	Credits
Required Courses		
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 250	Principles of Financial Accounting	4
ECON-SHU 3	Microeconomics	4
ECON-SHU 251	Economics of Global Business	4
Electives		
Select one of the following:		4
BUSF-SHU 142	Information Technology in Business & Society	
BUSF-SHU 202	Foundations of Finance	
BUSF-SHU 210	Business Analytics	
BUSF-SHU 303	Corporate Finance	
BUSF-SHU 351	Operations Management	
MGMT-SHU 301	Management and Organizations	

MKTG-SHU 1 Introduction to Marketing

Additional Courses

Select two of the following: 8

BUSF-SHU 142 Information Technology in Business & Society

BUSF-SHU 202 Foundations of Finance

BUSF-SHU 210 Business Analytics

BUSF-SHU 351 Operations Management

MGMT-SHU 301 Management and Organizations

MKTG-SHU 1 Introduction to Marketing

Total Credits 28

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Business and Finance (BS)

CIP: 52.0101

Program Description

To advance in today's global business environment, one must develop an exceptionally broad array of intellectual skills. The modern business environment demands the ability to analyze problems rigorously, to develop innovative and creative solutions, and to work effectively within the context of an organization. That in turn demands an understanding of the customers, the cultural and scientific contexts in which businesses operate, alongside an understanding of the techniques by which firms succeed in a competitive economy.

A successful business combines labor and capital to produce a good or service at a price and quality that customers want to purchase. In a complex business, different individuals often take responsibility for different aspects of that endeavor, such as operations management, marketing and sales, information systems management, and financial management. An effective business education should provide students

with an overview of all these fields, together with an opportunity to explore some areas in greater depth.

The business program at NYU Shanghai is designed to provide students with comprehensive preparation for the modern globalized business world. It builds upon the liberal education designed into the NYU Shanghai core curriculum. Before entering the major, students will have developed an essential set of skills in mathematics, critical thinking, and oral and written communication. They will also have acquired a familiarity with the general cultural and scientific contexts in which businesses operate. Within the major, students obtain:

1. a deeper understanding of the modern global business environment and its economic structure;
2. disciplinary skills in economics and statistics;
3. a focused introduction to accounting, analytics, finance, marketing, operations, and organizational management.

The Business & Finance major helps students develop knowledge and skills in corporate finance, investments management, securities trading, financial markets, and more.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus ¹	4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World Course		4
Science, Technology and Society Course		4
Courses for the Business and Finance Major		
<i>Business Core</i>		
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 202	Foundations of Finance	4
BUSF-SHU 250	Principles of Financial Accounting	4
ECON-SHU 3	Microeconomics	4
ECON-SHU 251	Economics of Global Business	4
<i>Finance Core</i>		
BUSF-SHU 303	Corporate Finance	4

<i>Business Core Electives</i>	
Select two of the following:	8
BUSF-SHU 142 Information Technology in Business & Society	
BUSF-SHU 210 Business Analytics	
BUSF-SHU 351 Operations Management	
MGMT-SHU 301	Management and Organizations
MKTG-SHU 1	Introduction to Marketing
<i>Finance Electives</i>	
Select two of the following: ²	8
BUSF-SHU 304 Futures and Options	
BUSF-SHU 305 Debt Instruments and Markets	
BUSF-SHU 321 Equity Valuation	
BUSF-SHU 361 Entrepreneurial Finance	
BUSF-SHU 420 Business Topics Course: Financial Market Volatility Modeling	
BUSF-SHU 441 Private Equity & Venture Capital in Asia and Emerging Markets	
<i>Non-Finance Electives</i>	
Select two from the following areas: ³	8
Accounting	
Business Analytics	
Management	
Marketing	
Operations	
Information Systems	
<i>China Business Studies</i>	
Select one of the following: ⁴	4
BUSF-SHU 200D Business Consulting in China	
BUSF-SHU 286 Chinese Financial Markets	
BUSF-SHU 288 Doing Business with China	
Other Elective Credits	24-32
Total Credits	128

¹ MATH-SHU 131 Calculus must be successfully completed with a grade of C or better.

² Any 4-credit Finance elective course offered at NYU Shanghai (such as those listed below) or any 3-credit Finance elective course offered by Stern Finance Department can be counted as a Finance elective. Taking two 2-credit Finance courses will be counted as meeting the requirement of one Finance elective.

³ Any 4-credit Non-Finance elective course offered at NYU Shanghai (such as those listed below) or any 3-credit Non-Finance elective course offered by Stern can be counted as a Non-Finance elective. Taking two 2-credit Non-Finance courses will be counted as meeting the requirement of one Non-Finance elective.

⁴ Students who are admitted into the Business and Economics Honors Program and conduct a China related research may fulfill the China Business Studies requirement with the credits from Business and Economics Honors Program.

Optional Business and Finance Tracks

1. *Business Accounting Track*

Business and Finance majors may complete a “Business Accounting track” within the major by taking Principles of Financial Accounting and Managerial Accounting and choosing one approved accounting course in fulfilling their two “Non-Finance Elective” requirements. Students should consult their academic advisor on the approved courses.

2. *Business Analytics Track*

Business and Finance majors may complete a “Business Analytics track” within the major by taking Business Analytics and Information Technology in Business & Society as the Business Electives and choosing one additional Operations/Information System/Analytics course (e.g., Operations Management) in fulfilling their two “Non-Finance Elective” requirements.

3. *Business Marketing Track*

Business and Finance majors may complete a “Marketing track” within the major by taking Introduction to Marketing as one of their Business Electives and choosing two Marketing Elective courses in fulfilling their two “Non-Finance Elective” requirements.

4. *Business Management Track*

Business and Finance majors may complete a “Management track” within the major by taking Management and Organizations as one of their Business Electives and choosing two approved management courses in fulfilling their two “Non-Finance Elective” requirements. Students should consult their academic advisor on the approved courses.

4th Semester/Term

ECON-SHU 251	Economics of Global Business	4
BUSF-SHU 303	Corporate Finance	4
Core Course		4
Chinese or Core Course		4
Credits		16

5th Semester/Term

Business Core Elective		4
Finance Elective or Non-Finance Elective		4
Core Course		4
General Elective		4
Credits		16

6th Semester/Term

Business Core Elective		4
Finance Elective or Non-Finance Elective		4
Core Course		4
General Elective		4
Credits		16

7th Semester/Term

China Business Studies		4
Finance Elective or Non-Finance Elective		4
Core Course or General Elective		4
General Elective		4
Credits		16

8th Semester/Term

Finance Elective or Non-Finance Elective		4
Core Course or General Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Seniors Thesis Requirement

All NYU Shanghai Business major students are required to submit a Senior Thesis paper to satisfy their graduation requirements. It serves to showcase their accumulated knowledge in business during their undergraduate studies. The Senior Thesis requires students to write an independent paper under the supervision of a course instructor or in consultation with faculty experts. Professors from other NYU sites may also serve in this role. A panel of business professors review all the submitted Senior Theses for approval. The Senior Thesis is submitted in the final semester of a student's senior year.

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
MATH-SHU 131	Calculus	4
CCSF-SHU 101L	Global Perspectives on Society	4
Chinese or EAP		4
Core Course		4
Credits		16
2nd Semester/Term		
ECON-SHU 3	Microeconomics	4
BUSF-SHU 101	Statistics for Business and Economics	4
WRIT-SHU 102	Writing as Inquiry	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
BUSF-SHU 250	Principles of Financial Accounting	4
BUSF-SHU 202	Foundations of Finance	4
Chinese or Core Course		4
Credits		16

Learning Outcomes

Upon successful completion of this program, students will display:

1. **Proficiency:** Students will gain proficiency in the main disciplines of finance, so they can provide value in various types of organizations.
2. **Intellectualism:** Students will exhibit intellectual curiosity and a deeper understanding of the modern global business environment and its economic structure.
3. **Global experiences:** Students will demonstrate their understanding of different cultural environments and how to become better managers in an increasingly integrated world.
4. **Social impact and decision-making:** Students will achieve understanding of the role of business within our global society and be able to measure trade-offs to improve decision-making

Policies

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Prerequisite Course for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Statistics for Business and Economics.

Major Policies

- 1. Students need to pass Calculus with a grade of C or above to fulfill the math core requirement for the business majors.
- 2. Students can only take ECON-SHU 3 Microeconomics in Shanghai. It is highly recommended that students complete ECON-SHU 3 Microeconomics prior to study away.
- 3. Students may take up to three Stern Business courses per semester while studying away.

Secondary Major Guidelines

Students who are interested in pursuing a Data Science major along with a Business major have the option to double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

- BUSF-SHU 101 Statistics for Business and Economics
- BUSF-SHU 202 Foundations of Finance
- BUSF-SHU 250 Principles of Financial Accounting
- BUSF-SHU 303 Corporate Finance
- ECON-SHU 3 Microeconomics

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Business and Marketing (BS)

CIP: 52.0101

Program Description

To advance in today’s global business environment, one must develop an exceptionally broad array of intellectual skills. The modern business environment demands the ability to analyze problems rigorously, to develop innovative and creative solutions, and to work effectively within the context of an organization. That in turn demands an understanding of the customers, the cultural and scientific contexts in which businesses operate, alongside an understanding of the techniques by which firms succeed in a competitive economy.

A successful business combines labor and capital to produce a good or service at a price and quality that customers want to purchase. In a complex business, different individuals often take responsibility for different aspects of that endeavor, such as operations management, marketing and sales, information systems management, and financial management. An effective business education should provide students with an overview of all these fields, together with an opportunity to explore some areas in greater depth.

The business program at NYU Shanghai is designed to provide students with comprehensive preparation for the modern globalized business

world. It builds upon the liberal education designed into the NYU Shanghai core curriculum. Before entering the major, students will have developed an essential set of skills in mathematics, critical thinking, and oral and written communication. They will also have acquired a familiarity with the general cultural and scientific contexts in which businesses operate. Within the major, students obtain:

- 1. a deeper understanding of the modern global business environment and its economic structure;
- 2. disciplinary skills in economics and statistics;
- 3. a focused introduction to accounting, analytics, finance, marketing, operations, and organizational management.

The Business & Marketing major helps students develop knowledge and skills in marketing management, customer insights, brand management, and more.

Admissions

New York University’s Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		
Language Courses		8-16
Mathematics		
MATH-SHU 131	Calculus	4
Algorithmic Thinking		
Algorithm Thinking Course		4
Science		
Experimental Discovery in the Natural World		4
Science, Technology, and Society		4
Major Requirements		
Business Core		
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 202	Foundations of Finance	4
BUSF-SHU 250	Principles of Financial Accounting	4
ECON-SHU 3	Microeconomics	4
ECON-SHU 251	Economics of Global Business	4
Marketing Core		
MKTG-SHU 1	Introduction to Marketing	4
Business Core Electives		
Select two of the following:		8
BUSF-SHU 142 Information Technology in Business & Society		
BUSF-SHU 210 Business Analytics		

BUSF-SHU 303 Corporate Finance	
BUSF-SHU 351 Operations Management	
MGMT-SHU 301 Management and Organizations	
<i>Marketing Electives</i> ^{1,2}	
Select one of the following:	4
MKTG-SHU 2 Consumer Behavior	
MKTG-SHU 9 Research for Customer Insights	
Select one of the following:	4
MKTG-SHU 3 Advertising Management	
MKTG-SHU 53 Pricing	
MKTG-SHU 57 Digital Marketing	
MKTG-SHU 64 Global Marketing Strategy	
<i>Non-Marketing Electives</i> ³	
Select two from the following areas:	8
Accounting	
Business Analytics	
Management	
Finance	
Operations	
Information Systems	
<i>China Business Studies</i> ⁴	
Select one of the following:	4
BUSF-SHU 288 Doing Business with China (Select one of the following:)	
BUSF-SHU 200D Business Consulting in China	
BUSF-SHU 286 Chinese Financial Markets	
Other Elective Credits	24-32
Total Credits	128

¹ Students who take either MKTG-SHU 2 Consumer Behavior or MKTG-SHU 9 Research for Customer Insights may choose to take the other to fulfill their Marketing Elective Requirement.

² Any 4-credit Marketing elective course offered at NYU Shanghai (such as those listed below) or any 3-credit Marketing elective course offered by Stern Marketing Department can be counted as a Marketing elective. Taking two 2-credit Marketing courses will be counted as meeting the requirement of one Marketing elective.

³ Any 4-credit Non-Marketing elective course offered at NYU Shanghai (such as those listed below) or any 3-credit Non-Marketing elective course offered by Stern can be counted as a Non-Marketing elective. Taking two 2-credit Non-Marketing courses will be counted as meeting the requirement of one Non-Marketing elective.

⁴ Students who are admitted into the Business and Economics Honors Program and conduct China related research may fulfill the China Business Studies requirement with the credits from Business and Economics Honors Program.

Optional Business and Marketing Major Tracks

1. *Business Accounting Track*

Business and Marketing majors may complete a “Business Accounting track” within the major by taking Principles of Financial Accounting and Managerial Accounting and choosing one approved accounting course* in fulfilling their two “Non-Marketing Elective”

requirements. (*Students should consult their academic advisor on the approved courses.)

2. *Business Analytics Track*

Business and Marketing majors may complete a “Business Analytics track” within the major by taking Business Analytics and Information Technology in Business & Society as the Business Electives and choosing one additional Operations/Information System/Analytics course (e.g., Operations Management) in fulfilling their two “Non-Marketing Elective” requirements.

3. *Business Finance Track*

Business and Marketing majors may complete a “Finance track” within the major by taking Corporate Finance as one of their Business Electives and choosing two Finance Elective courses in fulfilling their two “Non-Marketing Elective” requirements.

4. *Business Management Track*

Business and Marketing majors may complete a “Management track” within the major by taking Management and Organizations as one of their Business Electives and choosing two approved management courses* in fulfilling their two “Non-Marketing Elective” requirements. (*Students should consult their academic advisor on the approved courses.)

Senior Thesis Requirement

All NYU Shanghai Business major students are required to submit a Senior Thesis paper to satisfy their graduation requirements. It serves to showcase their accumulated knowledge in business during their undergraduate studies. The Senior Thesis requires students to write an independent paper under the supervision of a course instructor or in consultation with faculty experts. Professors from other NYU sites may also serve in this role. A panel of business professors review all the submitted Senior Theses for approval. The Senior Thesis is submitted in the final semester of a student’s senior year.

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
Core Course		4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
ECON-SHU 3	Microeconomics	4
BUSF-SHU 101	Statistics for Business and Economics	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
BUSF-SHU 250	Principles of Financial Accounting	4
BUSF-SHU 202	Foundations of Finance	4
Chinese or Core Class		4
Credits		16
4th Semester/Term		
Core or General Elective		4
ECON-SHU 251	Economics of Global Business	4
MKTG-SHU 1	Introduction to Marketing	4
Chinese or General Elective		4
Credits		16

5th Semester/Term	
Core or General Elective	4
Business Core Elective	4
Marketing Elective or Non-Marketing Elective	4
Core or General Elective	4
Credits	16
6th Semester/Term	
Marketing Elective or Non-Marketing Elective	4
Business Core Elective	4
Core or General Elective	4
General Elective	4
Credits	16
7th Semester/Term	
Non-Marketing Elective or Marketing Elective	4
China Business Studies	4
General Elective	4
General Elective	4
Credits	16
8th Semester/Term	
Non-Marketing Elective or Marketing Elective	4
General Elective	4
Core or General Elective	4
General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of the program, students will display:

1. Proficiency: Students will gain proficiency in the main disciplines of marketing, so they can provide value by helping organizations match offerings and needs in the marketplace.
2. Intellectualism: Students will exhibit intellectual curiosity and a deeper understanding of the modern global business environment and its economic structure.
3. Global experiences: Students will demonstrate their understanding of different cultural environments and how to become better managers in an increasingly integrated world.
4. Social impact and decision-making: Students will achieve understanding of the role of business within our global society and be able to measure trade-offs to improve decision-making.

Policies

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Prerequisite Course for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Statistics for Business and Economics.

Major Policies

- Students need to pass Calculus with a grade C or above to fulfill the math core requirement for the business majors.

- Students can only take ECON-SHU 3 Microeconomics in Shanghai. It is highly recommended that students complete ECON-SHU 3 Microeconomics prior to study away.
- Students may take up to three Stern Business courses per semester while studying away.

Business & Marketing and Data Science (Concentration in Marketing) Double Major Guidelines

Students who are interested in pursuing a Data Science major along with a Business major have the option to double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

- BUSF-SHU 101 Statistics for Business and Economics
- BUSF-SHU 202 Foundations of Finance
- BUSF-SHU 250 Principles of Financial Accounting
- ECON-SHU 3 Microeconomics
- MKTG-SHU 1 Introduction to Marketing

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Chemistry (BS)

CIP: 40.0501

Program Description

Chemistry is the study of the world of molecules: how they are created from atoms, how their structures affect their chemical and physical properties, and how they unite or assemble to form the matter that makes up the physical world. Knowledge of chemistry is fundamental to an in-depth understanding of the structural properties and biochemical reactions that define all living systems. Chemistry is therefore the central science that bridges physics and the life sciences, and is a foundation to many other fields, such as materials science, earth science, and forensic science. The challenges that society faces in the twenty-first century, such as managing climate change, sourcing clean energy, and ensuring food security, are at their root chemical problems. With a global perspective and a broad science curriculum at its core, our chemistry major program gives students a comprehensive outlook necessary to tackle these challenges.

A key characteristic of the chemistry major at NYU Shanghai is a good balance between depth and breadth of study: following the foundational science courses in chemistry and physics, students take the essential “canon” of organic chemistry and physical chemistry lectures and labs. Students then have flexibility in choosing three or more chemistry electives in areas of specialization that interest them, including Analytical Chemistry, Computational Chemistry, and Biochemistry courses. A distinguishing feature of chemistry is the importance of creativity, whether it be in synthesizing new molecules, discovering novel reactions and materials, or developing new theories of matter. All chemistry

students undertake a research or literature review project during their senior year in an Integrated Science Capstone course. Students who are pursuing careers in academic or industrial research are encouraged to undertake two or more semesters of research with faculty, potentially culminating in an undergraduate thesis and chemistry honors.

Majoring in chemistry provides good preparation for graduate study in chemistry and related fields, such as biochemistry, biomedicine, and materials science. Chemistry major students are also well prepared for professional school, including medical, pharmacy, dental, optometry, veterinary, forensic, and law school. Students who, instead, decide to enter industry after graduation are well-served by the combination of creative and quantitative skills developed in the chemistry major that transfer to diverse sectors from data science to biotechnology to finance.

Chemistry Honors

Students who meet GPA eligibility requirements laid out elsewhere in the bulletin may pursue Chemistry Honors. Honors-track students conduct two semesters of research with a faculty member for a total of 4 credits of Independent Study and culminating in a 4-credit Undergraduate Thesis course in the year of graduation. Honors-track students are not required to take the Integrated Science Capstone course, although they are strongly encouraged to audit it. Students who switch to the Honors track after taking the Integrated Science Capstone may have 4 credits of Independent Study waived with prior approval, but will need to complete the 4-credit Undergraduate Thesis course.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World Requirement Fulfilled by Major Coursework		
Science, Technology, and Society Requirement Fulfilled by Major Coursework		
Courses for the Chemistry Major		
<i>Foundational Courses</i>		
CHEM-SHU 125	Foundations of Chemistry I	3

CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
CHEM-SHU 128	Foundations of Chemistry II Lab	2
PHYS-SHU 11	General Physics I	3
or PHYS-SHU 91	Foundations of Physics I Honors	
PHYS-SHU 12	General Physics II	3
or PHYS-SHU 93	Foundations of Physics II Honors	
PHYS-SHU 71	Foundations of Physics Lab I	2
PHYS-SHU 94	Foundations of Physics Lab II	2

Required Courses

CHEM-SHU 225	Organic Chemistry I	3
CHEM-SHU 225L	Organic Chemistry I Lab	2
CHEM-SHU 226	Organic Chemistry II	3
CHEM-SHU 226L	Organic Chemistry II Lab	2
CHEM-SHU 651	Physical Chemistry: Quantum Mechanics and Spectroscopy (taken in Shanghai)	4
CHEM-SHU 652	Physical Chemistry: Thermodynamics and Kinetics (taken in Shanghai)	4
CHEM-UA 661	Physical Chemistry Laboratory	4
CHEM-SHU 998	Integrated Science Capstone	4
MATH-SHU 151	Multivariable Calculus	4

Chemistry Electives

Select three of the following:		12
CHEM-GA 9627	Computational Chemistry	
CHEM-GA 9666	Quantum Chemistry and Advanced Statistical Mechanics	
CHEM-GA 9668	Chemical Dynamics	
CHEM-SHU 312	Analytical Chemistry	
CHEM-SHU 881	Biochemistry I	
CHEM-SHU 882	Biochemistry II	
CHEM-SHU 997	Independent Study – Chemistry	

Electives

Other Elective Credits	22-30
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Total Credits	128
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General Electives

Recommended General Electives

Students may take any courses in NYU's global network to satisfy the general elective requirements, but are strongly encouraged to take one or more of the following mathematics and computer science courses.

Course	Title	Credits
Recommended Mathematics General Electives		
MATH-SHU 140	Linear Algebra	4
MATH-SHU 235	Probability and Statistics	4
MATH-SHU 262	Ordinary Differential Equations	4

Recommended Computer Science General Electives

CSCI-SHU 11	Introduction to Computer Programming	4
CSCI-SHU 101	Introduction to Computer and Data Science	4

Research Opportunities

NYU Shanghai boasts a world-class research environment across multiple fields of Chemistry. Students are strongly encouraged to begin research with faculty members as early as freshman or sophomore year, and research opportunities are available during the semesters and over the winter and summer breaks. Students particularly interested in conducting research in Shanghai over the summer are encouraged to apply for DURF grants awarded by the university.

Sample Plan of Study - Starting Major in First Year

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
PHYS-SHU 11	General Physics I or Core Language Course (recommended)	3 or 4
Credits		16-17
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 151	Multivariable Calculus	4
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 128	Foundations of Chemistry II Lab	2
PHYS-SHU 12	General Physics II or Core Language Course	3 or 4
Credits		16-17
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
CHEM-SHU 225	Organic Chemistry I	3
CHEM-SHU 225L	Organic Chemistry I Lab	2
Chemistry Elective		4
PHYS-SHU 11	General Physics I or Core Language Course	3 or 4
Credits		16-17
4th Semester/Term		
Core Course		4
CHEM-SHU 226	Organic Chemistry II	3
CHEM-SHU 226L	Organic Chemistry II Lab	2
PHYS-SHU 12	General Physics II	3
or PHYS-SHU 93	or Foundations of Physics II Honors	
PHYS-SHU 94	Foundations of Physics Lab II	2
Chinese or EAP or Core Course		4
Credits		18
5th Semester/Term		
CHEM-SHU 651	Physical Chemistry: Quantum Mechanics and Spectroscopy	4
Chemistry Elective		4
General Elective		4
General Elective		4
Credits		16
6th Semester/Term		
CHEM-UA 661	Physical Chemistry Laboratory	4
Chemistry Elective		4
General Elective		4
General Elective		4
Credits		16

7th Semester/Term

CHEM-SHU 652	Physical Chemistry: Thermodynamics and Kinetics	4
CHEM-SHU 998	Integrated Science Capstone	4
Core Course or General Elective		4
General Elective		2
Credits		14

8th Semester/Term

Chemistry Elective	4
General Elective	4
General Elective	4
General Elective	4
Credits	16
Total Credits	128-131

Sample Plan of Study - Starting Major in Second Year

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
Chinese or EAP		4
Core Course		4
Core or General Elective		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 131	Calculus	4
Core or General Elective		4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
PHYS-SHU 11	General Physics I	3
or PHYS-SHU 91	or Foundations of Physics I Honors	
PHYS-SHU 94	Foundations of Physics Lab II	2
Chinese or General Elective		4
Credits		18
4th Semester/Term		
MATH-SHU 151	Multivariable Calculus	4
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 128	Foundations of Chemistry II Lab	2
PHYS-SHU 12	General Physics II	3
or PHYS-SHU 93	or Foundations of Physics II Honors	
PHYS-SHU 94	Foundations of Physics Lab II	2
Chinese or General Elective		4
Credits		18
5th Semester/Term		
CHEM-SHU 225	Organic Chemistry I	3
CHEM-SHU 225L	Organic Chemistry I Lab	2
CHEM-SHU 651	Physical Chemistry: Quantum Mechanics and Spectroscopy	4
General Elective		4
General Elective		4
Credits		17
6th Semester/Term		
CHEM-SHU 226	Organic Chemistry II	3
CHEM-SHU 226L	Organic Chemistry II Lab	2
CHEM-UA 661	Physical Chemistry Laboratory	4
Chemistry Elective		4

General Elective	4
Credits	17
7th Semester/Term	
CHEM-SHU 652 Physical Chemistry: Thermodynamics and Kinetics	4
CHEM-SHU 998 Integrated Science Capstone	4
Chemistry Elective	4
General Elective	2
Credits	14
8th Semester/Term	
Chemistry Elective	4
General Elective	4
General Elective	4
Credits	12
Total Credits	128

Learning Outcomes

Upon successful completion of this program, students will:

1. Demonstrate an understanding of core knowledge in chemistry, particularly the concepts and theories underlying molecular structure and interactions, organic reactivity, chemical equilibria and kinetics, and spectroscopy.
2. Use and apply these concepts and knowledge to new situations or datasets to solve problems.
3. Demonstrate facility at experimental design and analysis using the scientific method by generating ways of testing predictions from hypotheses and critically determining what would remain untested.
4. Synthesize data (e.g. from experiments or observations) to construct models that describe how chemical and physical transformations occur.
5. Demonstrate literacy in statistics and an ability to conduct relevant statistical tests and error analysis.
6. Display routine practice of laboratory safety, including performing risk assessments, following established safety protocols, using appropriate personal protective equipment, and maintaining detailed laboratory notebooks.
7. Effectively communicate their problem-solving rationale or research work in spoken, visual, and written form.
8. Critically evaluate their own works, as well as those of their peers and works from the current literature in chemical sciences, and effectively communicate these evaluations in spoken and written form.
9. Demonstrate a basic spectrum of technical skills commonly used in modern chemistry, such as titrating, performing organic reactions, purification, determining redox potentials, and using analytical and spectroscopic methods for chemical identification.

Policies

Program Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
2. Chemistry majors are strongly encouraged to complete the Foundational Courses in their first two years.

3. Relationship between General Physics and Foundations of Physics Honors: General Physics I & II are calculus-based courses for science majors, pre-meds, engineers and others who want a broad introduction and survey of basic physics including classical mechanics, electricity and magnetism, optics and waves, and thermal and statistical physics. Foundations of Physics I-IV Honors cover a similar set of topics in considerably greater depth, plus special relativity and an introduction to quantum mechanics, over four semesters, and these courses are recommended for students with a strong high-school background in physics and mathematics. While Foundations of Physics I & II Honors meet the requirements for a Chemistry major, taken alone, these courses do not include some important topics, such as optics, thermal and statistical physics, mechanics, and condensed matter physics. Therefore, students electing to take the Honors Physics track are recommended to also take Foundations of Physics III & IV Honors.
4. CHEM-SHU 998 Integrated Science Capstone must be taken in the year of graduation.
5. Additional advanced chemistry courses in NYU's global network can also meet the Chemistry Electives requirement. Students should consult with their Academic Advisor for further details.

Prerequisite Course for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Foundations of Chemistry I.

Major Policies

Graduate courses in chemistry may be taken for undergraduate credit and can satisfy a Chemistry Elective requirement, with prior approval. Graduate courses offered in Shanghai include CHEM-GA 9627 (<https://bulletins.nyu.edu/about/blank>) Computational Chemistry, CHEM-GA 9666 (<https://bulletins.nyu.edu/about/blank>) Quantum Chemistry and Advanced Statistical Mechanics, and CHEM-GA 9668 (<https://bulletins.nyu.edu/about/blank>) Chemical Dynamics.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Chemistry (Minor)

Program Description

Chemistry is the study of the world of molecules: how they are created from atoms, how their structures affect their chemical and physical properties, and how they unite or assemble to form the matter that makes up the physical world. Knowledge of chemistry is fundamental to an in-depth understanding of the structural properties and biochemical reactions that define all living systems. Chemistry is therefore the central science that bridges physics and the life sciences, and is a foundation to many other fields, such as materials science, earth science, and forensic science. The challenges that society faces in the twenty-first century, such as managing climate change, sourcing clean energy, and ensuring food security, are at their root chemical problems. With a global perspective and a broad science curriculum at its core, our chemistry major program gives students a comprehensive outlook necessary to tackle these challenges.

A key characteristic of the chemistry major at NYU Shanghai is a good balance between depth and breadth of study: following the foundational science courses in chemistry and physics, students take the essential “canon” of organic chemistry and physical chemistry lectures and labs. Students then have flexibility in choosing three or more chemistry electives in areas of specialization that interest them, including Inorganic Chemistry, Analytical Chemistry, Computational Chemistry, and Biochemistry courses. A distinguishing feature of chemistry is the importance of creativity, whether it be in synthesizing new molecules, discovering novel reactions and materials, or developing new theories of matter. All chemistry students undertake a research or literature review project during their senior year in an Integrate Science Capstone course. Students who are pursuing careers in academic or industrial research are encouraged to undertake two or more semesters of research with faculty, potentially culminating in an undergraduate thesis and chemistry honors.

Majoring in chemistry provides good preparation for graduate study in chemistry and related fields, such as biochemistry, biomedicine, and materials science. Chemistry major students are also well prepared for professional school, including medical, pharmacy, dental, optometry, veterinary, forensic, and law school. Students who, instead, decide to enter industry after graduation are well-served by the combination of creative and quantitative skills developed in the chemistry major that transfer to diverse sectors from data science to biotechnology to finance.

Program Requirements

Course	Title	Credits
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
CHEM-SHU 128	Foundations of Chemistry II Lab	2
CHEM-SHU 225 & 225L	Organic Chemistry I and Organic Chemistry I Lab	5
CHEM-SHU 226 & 226L	Organic Chemistry II and Organic Chemistry II Lab	5
Total Credits		20

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Chinese Language (Minor) Program Description

The Chinese Language Program (CLP) at NYU Shanghai offers a comprehensive range of undergraduate language courses designed to achieve high standards in linguistic and cultural proficiency focused on China. The Chinese Language Program (CLP) offers two tracks for a minor in Chinese: the Chinese Minor and the Chinese Language and Literature Minor.

Of the two minors, the **Chinese Minor** is more language-focused. It provides all international students, regardless of their initial proficiency, the opportunity to surpass the core two-year Chinese language study requirement, and develop proficiency at an advanced level and beyond. This track is ideal for students majoring in other fields who wish to attain advanced proficiency in Chinese and gain foundational knowledge of China's language, history, and culture.

Program Requirements

GCS major who doesn't place out of Intermediate I must do the following for the Chinese minor:

Course	Title	Credits
Four courses of Chinese language above the Elementary II Level		16
Total Credits		16

Policies

Minor Policies

1. Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

2. To complete this minor, students are required to earn 16 credits in Chinese language courses beyond Elementary II. Only 4 credits of those 16 can double count with another degree requirement. Those who test out of any portion of the Intermediate and Advanced sequence must substitute the course(s) they placed out of with higher-level Chinese language classes.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Chinese Language and Literature (Minor)

Program Description

The Chinese Language Program (CLP) at NYU Shanghai offers a comprehensive range of undergraduate language courses designed to achieve high standards in linguistic and cultural proficiency focused on China. The Chinese Language Program (CLP) offers two tracks for a minor in Chinese: the Chinese Minor and the Chinese Language and Literature Minor.

The **Chinese Language and Literature Minor** is designed to integrate language learning with content exploration. This minor suits students who enter with a proficiency level typically beyond Advanced and are eager to link their language studies to global Chinese studies, arts, humanities, and beyond. The curriculum not only deepens students' understanding of Chinese literature, history, culture, and society through language but also enables them to apply their linguistic skills across academic pursuits and various professional contexts.

Program Requirements

Course	Title	Credits
Required Courses		
Select one of the following:		4
CHIN-SHU 401	Classical Chinese for Advanced Mandarin Learners	
GCHN-SHU 233	Foreign Societies in Classical Chinese Writing	
Language in Context		
Select two of the following:		8
CHIN-SHU 408	Introduction to Chinese Phonetics	
CHIN-SHU 410	Written Chinese Discourse	
CHIN-SHU 415	Introduction to Contemporary China I	
CHIN-SHU 429	Chinese Business and Finance -- A Bilingual Introduction	
CHIN-SHU 500	Chinese Topic Course: Contemporary Chinese Art and Fashion	
GCHN-SHU 283	Reading and Viewing Modern China	
Chinese Literature		
Select two of the following:		8
GCHN-SHU 116	Traditional Chinese Literature from the Beginning to 1911	
GCHN-SHU 225	Cultural Translations: China and the West	
GCHN-SHU 111	Shanghai Stories	
Total Credits		20

Policies

For Language in Context courses, the language of instruction is Chinese. For Chinese Literature courses, the language of instruction may be Chinese or English, depending on the semester and the faculty. Students

minoring in Chinese Language and Literature are strongly recommended to enroll in courses where the language of instruction is Chinese, if possible. Additional literature courses taught in Chinese will be added as they become available.

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Computer Science (BS)

CIP: 11.0701

Program Description

Computer Science at NYU Shanghai is designed to create technological leaders with a global perspective, a broad education, and the capacity to think creatively. Computer science focuses on how to design, build, and effectively use the computers and systems that we interact with every day – from the iPhones in our hands to the complex databases in our banks and hospitals and to the self-driving cars of the future. Because computer technology powers the most essential functions of business, industry, government and entertainment, computer scientists have tremendous opportunities for growth and exploration.

The Bachelor of Science in Computer Science is a rigorous program that not only covers fundamental computer science subjects - such as object-oriented programming, computer architecture, algorithms, and operating systems – but provides a wide variety of elective courses, spanning artificial intelligence, game programming, natural language processing, information visualization, security and privacy, computer networking, machine learning, and database design. Students are actively encouraged to pursue research with NYU Shanghai computer science professors, all of whom are renown in their respective fields. Students are involved in an increasing number of interdisciplinary initiatives across the university, including the Center for Data Science and Artificial Intelligence and the Neuroscience Research Institute.

Computer science graduates have a myriad of career paths, including creating products for major high-tech companies such as Google, Tencent, Microsoft, founding or joining a high-tech startup, applying computer science savoir-faire in the public sector such as healthcare, law enforcement, or transportation, or going on to do cutting-edge research in

a Ph.D. program. Household names such as Bill Gates, Mark Zuckerberg, Larry Page, Melisa Myers, Robin Li, and Kai-Fu Lee all began in computer science.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		
Language Courses		8-16
Mathematics		
MATH-SHU 131	Calculus	4
Algorithmic Thinking		
Algorithmic Thinking Requirement Fulfilled by Major Coursework		
Science		
Experimental Discovery in the Natural World		4
Science, Technology, and Society		4
Major Requirements		
Required Major Courses		
CSCI-SHU 101	Introduction to Computer and Data Science	4
CSCI-SHU 210	Data Structures	4
CSCI-SHU 215	Operating Systems	4
CSCI-SHU 220	Algorithms	4
CSCI-SHU 2314	Discrete Mathematics	4
CSCI-SHU 420	Computer Science Senior Project	4
Select one of the following:		4
MATH-SHU 235	Probability and Statistics	
MATH-SHU 238	Honors Theory of Probability	
BUSF-SHU 101	Statistics for Business and Economics	
Select one of the following:		4
CENG-SHU 202	Computer Architecture	
CSCI-UA 201	Computer Systems Org	
CSCI-SHU 350	Embedded Computer Systems	
Computer Science Electives		
Select four of the Computer Science Electives listed below		16
Other Elective Credits		32-40
Total Credits		128

Computer Science Electives

Code	Title	Credits
BUSF-SHU 310	Data Science for Social and Information Networks	4
CENG-SHU 201	Digital Logic	4
CSCI-SHU 188	Introduction to Computer Music	4
CSCI-SHU 200	Topics in Human-Computer Interaction	4
CSCI-SHU 205	Topics in Computer Science	4
CSCI-SHU 213	Databases	4
CSCI-SHU 222	Introduction to Game Programming	4
CSCI-SHU 254	Distributed Systems	4
CSCI-SHU 308	Computer Networking	4
CSCI-SHU 311	Functional Programming	4
CSCI-SHU 350	Embedded Computer Systems	4
CSCI-SHU 360	Machine Learning	4
CSCI-SHU 361	Computer Security	4
CSCI-SHU 370	Object-Oriented Programming	4
CSCI-SHU 375	Reinforcement Learning	4
CSCI-SHU 376	Natural Language Processing	4
CSCI-SHU 378	Introduction to Cryptography	4
CSCI-SHU 381	Recommendation Systems	4
CSCI-SHU 410	Software Engineering	4
CSCI-SHU 997	Computer Science Independent Study	2-4
DATS-SHU 200	Topics in Machine Learning	4
DATS-SHU 235	Information Visualization	4
DATS-SHU 240	Introduction to Optimization and Mathematical Programming	4
DATS-SHU 369	Machine Learning with Graphs	4
DATS-SHU 377	Computer Vision	4

DATS-SHU 200 Topics in Machine Learning includes topics in:

- Deep Learning
- Optimatisation for Data Science and Machine Learning

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
CSCI-SHU 11	Introduction to Computer Programming (Core Class)	4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 101	Writing as Inquiry: WI	4
Core Class		4
CSCI-SHU 101	Introduction to Computer and Data Science	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
CSCI-SHU 210	Data Structures	4
CSCI-SHU 2314	Discrete Mathematics	4
Chinese or Core Course		4
Credits		16
4th Semester/Term		
MATH-SHU 235	Probability and Statistics	4

CSCI-SHU 220	Algorithms	4
CENG-SHU 202	Computer Architecture	4
Chinese or Core Course		4
Credits		16
5th Semester/Term		
Core Course or General Elective		4
Computer Science Elective		4
Computer Science Elective		4
General Elective		4
Credits		16
6th Semester/Term		
Core Course or General Elective		4
Computer Science Elective		4
Computer Science Elective		4
General Elective		4
Credits		16
7th Semester/Term		
CSCI-SHU 215	Operating Systems	4
CSCI-SHU 420	Computer Science Senior Project	4
General Elective		4
General Elective		4
Credits		16
8th Semester/Term		
General Elective		4
General Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Learning Outcomes

Upon successful completion of this program, students will:

1. Have an understanding of the fundamental technical subject areas associated with computer science.
2. Be able to incorporate knowledge of mathematics, computer science and engineering to solve technical problems.
3. Have the ability to communicate and function effectively in an interdisciplinary team environment.
4. Be effective life-long learners including demonstrating professional and ethical responsibilities.

Policies

Core Language Requirement

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Interdisciplinary CS Elective

BUSF-SHU 310 Data Science for Social and Information Networks is considered as an "Interdisciplinary" CS elective. A maximum of one "interdisciplinary" CS elective class could be used to fulfill the four CS elective requirements. Please contact your advisor for more information.

Prerequisite Courses for Declaring a Major

Final grade of C/current semester midterm grade of B or higher in Introduction to Computer Programming OR Introduction to Computer and Data Science + Calculus.

Major Policies

Computer Science majors are not able to double major in Data Science.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Computer Science (Minor)

Program Description

Computer Science at NYU Shanghai is designed to create technological leaders with a global perspective, a broad education, and the capacity to think creatively. Computer science focuses on how to design, build, and effectively use the computers and systems that we interact with every day — from the iPhones in our hands to the complex databases in our banks and hospitals and to the self-driving cars of the future. Because computer technology powers the most essential functions of business, industry, government and entertainment, computer scientists have tremendous opportunities for growth and exploration.

The Bachelor of Science in Computer Science is a rigorous program that not only covers fundamental computer science subjects - such as object-oriented programming, computer architecture, algorithms, and operating systems — but provides a wide variety of elective courses, spanning artificial intelligence, game programming, natural language processing, information visualization, security and privacy, computer networking, machine learning, and database design. Students are actively encouraged to pursue research with NYU Shanghai computer science professors, all of whom are renown in their respective fields. Students are involved in an increasing number of interdisciplinary initiatives across the university, including the Center for Data Science and Artificial Intelligence and the Neuroscience Research Institute.

Computer science graduates have a myriad of career paths, including creating products for major high-tech companies such as Google, Tencent, Microsoft, founding or joining a high-tech startup, applying computer science savoir-faire in the public sector such as healthcare, law enforcement, or transportation, or going on to do cutting-edge research in a Ph.D. program. Household names such as Bill Gates, Mark Zuckerberg, Larry Page, Melisa Myers, Robin Li, and Kai-Fu Lee all began in computer science.

Program Requirements

Course	Title	Credits
CSCI-SHU 101	Introduction to Computer and Data Science	4
CSCI-SHU 210	Data Structures	4
Select one of the following:		4
CENG-SHU 202	Computer Architecture	
CSCI-UA 201	Computer Systems Org	

CSCI-SHU 350 Embedded Computer Systems	
One computer science elective course	4
Total Credits	16

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Computer Systems Engineering (BS)

CIP: 14.0901

Program Description

Engineering challenges of the 21st century are varied, complex, and cross-disciplinary. Ranging from the nano-scale to mega-projects, they are characterized by sustainability concerns, environmental and energy constraints, global sourcing, and humanitarian goals. In the face of global competition, dwindling natural resources and the complexity of societal needs, the leaders of technological enterprises will be those who can innovate, are inventive and entrepreneurial, and understand how technology is integrated within society.

Computer Systems Engineering at NYU Shanghai is designed to create technological leaders with a global perspective, a broad education, and the capacity to think creatively. Students enjoy a learning environment conducive to creativity which is at the heart of tomorrow's technological innovations and enterprises. Today the products of computer engineering touch nearly every part of our lives. They let us chat with friends via webcams, send emails from cell phones, and withdraw cash from ATMs. But laptops and information networks aren't the only products computer engineers develop; they reconstruct genomes, design robots, and develop software to make businesses more efficient.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application

requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CSSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Algorithmic Thinking</i>		
Algorithm Thinking Requirement Fulfilled by Major Coursework		
<i>Science</i>		
PHYS-SHU 11	General Physics I	3
PHYS-SHU 12	General Physics II	3
PHYS-SHU 94	Foundations of Physics Lab II	2
Major Requirements		
<i>Required Courses</i>		
CENG-SHU 201	Digital Logic	4
CENG-SHU 202	Computer Architecture	4
or CSCI-UA 201	Computer Systems Org	
CSCI-SHU 101	Introduction to Computer and Data Science	4
CSCI-SHU 210	Data Structures	4
CSCI-SHU 350	Embedded Computer Systems	4
CSCI-SHU 2314	Discrete Mathematics	4
EENG-SHU 251	Circuits	4
EENG-SHU 400	Senior Capstone Design Project I	4
MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 235	Probability and Statistics	4
or MATH-SHU 238	Honors Theory of Probability	
MATH-SHU 265	Linear Algebra and Differential Equation	4
or MATH-SHU 140	Linear Algebra	
or MATH-SHU 160	Networks and Dynamics	
<i>Major Electives</i>		
Select two of the following:		8
CSCI-SHU 213	Databases	
CSCI-SHU 215	Operating Systems	
CSCI-SHU 254	Distributed Systems	
CSCI-SHU 308	Computer Networking	
CSCI-SHU 361	Computer Security	
CS-UY 3393	UNIX System Programming	
CS-UY 3933	Network Security	
ECE-UY 3114	Fundamentals of Electronics I	

ECE-UY 3193 Introduction to Very Large Scale Integrated Circuits

ROB-UY 2004 Robotic Manipulation and Locomotion

Electives

Other Elective Credits 36

Total Credits 128

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
CSCI-SHU 11	Introduction to Computer Programming	4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
CSCI-SHU 101	Introduction to Computer and Data Science	4
MATH-SHU 151	Multivariable Calculus	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
CENG-SHU 201	Digital Logic	4
PHYS-SHU 11 or PHYS-SHU 91	General Physics I or Foundations of Physics I Honors	3
Chinese or Core Course		4
Credits		15
4th Semester/Term		
CSCI-SHU 210	Data Structures	4
EENG-SHU 251	Circuits	4
PHYS-SHU 12 or PHYS-SHU 93	General Physics II or Foundations of Physics II Honors	3
PHYS-SHU 94	Foundations of Physics Lab II	2
Chinese or Core Course		4
Credits		17
5th Semester/Term		
CSCI-SHU 2314	Discrete Mathematics	4
CENG-SHU 202	Computer Architecture	4
MATH-SHU 235 or MATH-SHU 238	Probability and Statistics or Honors Theory of Probability	4
Computer Systems Engineering Elective		4
Credits		16
6th Semester/Term		
Computer Systems Engineering Elective		4
MATH-SHU 265	Linear Algebra and Differential Equation (or alternative course)	4
CSCI-SHU 350	Embedded Computer Systems	4
General Elective		4
Credits		16
7th Semester/Term		
General Elective		4
Senior Project		4
Core or General Elective		4
General Elective		4
Credits		16
8th Semester/Term		
Core or General Elective		4
Core or General Elective		4
General Elective		4

General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of this program, students will:

1. Have an understanding of the fundamental technical subject areas associated with engineering.
2. Be able to incorporate knowledge of mathematics, computer science and engineering to solve technical problems.
3. Have the ability to communicate and function effectively in an interdisciplinary team environment.
4. Be effective life-long learners including demonstrating professional and ethical responsibilities.

Policies

Program Policies

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Calculus + Digital Logic OR Circuits.

Math and Computer Systems Engineering (CSE) Double Major Guidelines

Students who are interested in pursuing a Computer Systems Engineering major along with a math major have the option to double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

- MATH-SHU 235 Probability and Statistics **OR** MATH-SHU 238 Honors Theory of Probability
- MATH-SHU 140 Linear Algebra **OR** MATH-SHU 265 Linear Algebra and Differential Equations **OR** MATH-SHU 160 Networks and Dynamics
- CSCI-SHU 2314 Discrete Mathematics
- MATH-SHU 151 Multivariable Calculus

Honor Math and Computer Systems Engineering (CSE) Double Major Guidelines

Students who are interested in pursuing a Computer Systems Engineering major along with an honor math major have the option to double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

- MATH-SHU 141 Honors Linear Algebra I
- MATH-SHU 238 Honors Theory of Probability

- MATH-SHU 329 Honors Analysis II
- MATH-SHU 348 Honors Algebra I

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Computer Systems Engineering (Minor)

Program Description

Engineering challenges of the 21st century are varied, complex, and cross-disciplinary. Ranging from the nano-scale to mega-projects, they are characterized by sustainability concerns, environmental and energy constraints, global sourcing, and humanitarian goals. In the face of global competition, dwindling natural resources and the complexity of societal needs, the leaders of technological enterprises will be those who can innovate, are inventive and entrepreneurial, and understand how technology is integrated within society.

Program Requirements

Course	Title	Credits
CSCI-SHU 11	Introduction to Computer Programming	4
or CSCI-SHU 101	Introduction to Computer and Data Science	
CENG-SHU 201	Digital Logic	4
EENG-SHU 251	Circuits	4
Select one of the following:		4
CENG-SHU 202	Computer Architecture	
CSCI-SHU 350	Embedded Computer Systems	
Select one of the following:		4
CSCI-SHU 350	Embedded Computer Systems	
CSCI-SHU 308	Computer Networking	
CSCI-SHU 360	Machine Learning	
CENG-SHU 202	Computer Architecture	
Total Credits		20

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the

minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Creative Writing (Minor)

Program Description

The Writing Program at NYU Shanghai also offers a range of creative writing courses designed to support the creative ambitions of our uniquely diverse student body.

In a lively, multicultural setting, these courses foster essential skills in self-expression, persuasion, and analysis, and guide students in their growth as language artists. With a focus on reading, writing, and discussing poetry, fiction, and creative nonfiction in both traditional and emerging digital forms, these courses are built on the idea that sustained practice in these areas strengthens skills valuable across careers—from business and marketing to journalism, game development, interactive media, and even the sciences.

Students interested in further hands-on experience can help edit creative writing’s annual print journal, Confluences, or participate in events with visiting writers and translators in our Literary Reading Series.

Additionally, many of our courses can count toward elective credits for Humanities or Interactive Media Arts majors, offering students a chance to enrich their major studies through creative writing.

Program Requirements

Course	Title	Credits
Select one of the following introductory courses:		4
CRWR-SHU 159	Introduction to Creative Writing (a prerequisite for the intermediate and advanced craft courses)	
CRWR-SHU 161	Introduction to Creative Writing: Literary Translation (a prerequisite for the intermediate and advanced craft courses)	
Select two intermediate/advanced creative writing workshops:		8
CRWR-SHU 207	Introduction to Screenwriting	
CRWR-SHU 209	The Art of the Personal Narrative	
CRWR-SHU 220	Intermediate Creative Writing Craft Course	
CRWR-SHU 221	Intermediate Poetry Workshop	
CRWR-SHU 245	Intermediate Fiction Workshop: Speculative Fictions	
CRWR-SHU 248	Writing the Novella	

An additional intermediate/advanced creative writing workshop or a designated elective 4

Total Credits 16

Note: Requirements may be met through taking equivalent courses in the Global Network. See Policies tab for details.

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Program Policies

Global Network Courses

Requirements may be met through taking equivalent courses in the Global Network with the prior approval from the Area Head of the Writing Program.

In previous years, students have taken the following courses to fulfill their Creative Writing Minor requirement:

ARTS-UG 1560 Introduction to Dramatic Writing: The Short Play (Fall 2021, New York)

CRWRI-UA - 816 Intermediate Fiction Workshop (Spring 2023, Fall 2022, New York)

CRWRI-UA 815 Creative Writing: Intro Prose and Poetry (Spring 2024, New York)

FILMM-UH - 1012 Forms of Writing for Screen (Fall 2022, Abu Dhabi)

WRTNG-UG 1537 Crafting Short Fiction from the Sentence Up (Fall 2023, New York)

WRTNG-UG 1560 -001 The Art and Craft of Poetry (Spring 2023, New York)

Creativity and Innovation (Minor)

Program Description

The minor in Creativity and Innovation is designed to help students gain a deeper understanding of their existing and evolving creative

and innovative selves and, importantly, to help everyone gain greater confidence in these areas. The minor in Creativity and Innovation complements other studies that students undertake by equipping them with tools that enable them to develop further the ideas and artifacts they build in their majors. Beyond this, creativity and innovation are very significant tools that will pay dividends to students in future careers of any type.

Program Requirements

Course	Title	Credits
PCIX-SHU 101	Creativity Considered	4
Any PCIX or IMBX course		4
Choose four credits from a Design Thinking Course:		4
PCIX-SHU 103	Life Design	
PCIX-SHU 201	Design Thinking	
PCIX-SHU 241	Creative Learning Design	
Choose eight credits from Creativity and Innovation Elective courses:		8
PCIX-SHU 202	Communicating for Influence	
PCIX-SHU 301	Entrepreneurship Experienced	
IMBX-SHU 210	The Strategist	
IMBX-SHU 222	Reinventing the Brand	
SOCs-SHU 207	Urban and Architectural Design in China	
SOCs-SHU 318	Ethnographic Methods	
BUSF-SHU 225	Negotiation and Consensus Building	
MKTG-SHU 110	Practicum on Innovation and Branding	
Total Credits		20

Policies

Minor Policies

1. Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

2. Due to the similarity of the curriculum, Interactive Media + Business (p. 290) major students are not eligible to pursue the Creativity and Innovation minor.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Data Science (BS)

CIP: 11.1099

Program Description

Data Science at NYU Shanghai is designed to create data-driven leaders with a global perspective, a broad education, and the capacity to think creatively. Data science involves using computerized methods to analyze massive amounts of data and to extract knowledge from them. Data science addresses a wide range of data types, including scientific and economic numerical data, textual data, and image and video data. This new discipline draws from methodologies and tools in several well-established fields, including computer science, statistics, applied mathematics, and economics. Data science has applications in just about every academic discipline, including sociology, political science, digital humanities, linguistics, finance, marketing, urban informatics, medical informatics, genomics, image content analysis, and all branches of engineering and the physical sciences. The importance of data science is expected to accelerate in the coming years, as data from the web, mobile sensors, smartphones, and Internet-connected instruments continues to grow.

Students who complete the major will not only have expertise in computer programming, statistics, and data mining, but also know how to combine these tools to solve contemporary problems in a discipline of their choice, including the social science, physical science, and engineering disciplines. Upon graduation, data science majors have numerous career paths. Data Science majors can go on to graduate school in data science, computer science, social science, business, finance, medicine, law, linguistics, education, and so on. Outside of academia, there are also myriad career paths. Not only can graduates pursue careers with traditional data-driven computer-science companies and startups such as Google, Facebook, Amazon, and Microsoft, but also they can also be valuable to companies in the transportation, energy, medical, and financial sectors. Graduates can also pursue careers in the public sector, including urban planning, law enforcement, and education.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		

Language Courses		8-16
Mathematics		
Mathematics Requirement Fulfilled by Major Coursework		
Algorithmic Thinking		
Algorithmic Thinking Requirement Fulfilled by Major Coursework		
Science		
Experimental Discovery in the Natural World		4
Science, Technology, and Society		4
Major Requirements		
Foundational Courses		
CSCI-SHU 101	Introduction to Computer and Data Science	4
Select one of the following:		4
BUSF-SHU 101 Statistics for Business and Economics		
MATH-SHU 235	Probability and Statistics	
MATH-SHU 238	Honors Theory of Probability	
Programming & Computer Science		
CSCI-SHU 210	Data Structures	4
Mathematics		
Select one of the following:		4
MATH-SHU 151	Multivariable Calculus	
MATH-SHU 328	Honors Analysis I	
Select one of the following:		4
MATH-SHU 140	Linear Algebra	
MATH-SHU 141	Honors Linear Algebra I	
MATH-SHU 265	Linear Algebra and Differential Equation	
Data Analysis		
CSCI-SHU 360	Machine Learning	4
Select one of the following:		4
ECON-SHU 301	Econometrics	
MATH-SHU 234	Mathematical Statistics	
Select one of the following:		4
CSCI-SHU 220	Algorithms	
DATS-SHU 235	Information Visualization	
DATS-SHU 240	Introduction to Optimization and Mathematical Programming	
Data Management		
CSCI-SHU 213	Databases	4
Capstone Course		
DATS-SHU 420	Data Science Senior Project	4
Concentration Courses		
Complete one of the following Concentrations:		8-16
Finance		
Marketing		
Economics		
Genomics		

Mathematics	
Artificial Intelligence	
Political Science	
Psychology	
Electives	28-44
Total Credits	128

Data Science Concentrations

Finance

Course	Title	Credits
ECON-SHU 3	Microeconomics	4
BUSF-SHU 202	Foundations of Finance	4
BUSF-SHU 250	Principles of Financial Accounting	4
BUSF-SHU 303	Corporate Finance	4
Total Credits		16

Marketing

Course	Title	Credits
ECON-SHU 3	Microeconomics	4
BUSF-SHU 202	Foundations of Finance	4
BUSF-SHU 250	Principles of Financial Accounting	4
MKTG-SHU 1	Introduction to Marketing	4
Total Credits		16

Economics

Course	Title	Credits
ECON-SHU 1	Principles of Macroeconomics	4
ECON-SHU 3	Microeconomics	4
Total Credits		8

Genomics

Course	Title	Credits
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
BIOL-SHU 261	Genomics and Bioinformatics	4
Total Credits		12

Mathematics

Course	Title	Credits
Select two of the following:		8
MATH-SHU 142	Honors Linear Algebra II	
MATH-SHU 234	Mathematical Statistics	
MATH-SHU 238	Honors Theory of Probability	
MATH-SHU 329	Honors Analysis II	
MATH-SHU 345	Introduction to Stochastic Processes	
Total Credits		8

Artificial Intelligence

Course	Title	Credits
Select two of the following:		8
CSCI-SHU 220	Algorithms	
CSCI-SHU 375	Reinforcement Learning	
CSCI-SHU 376	Natural Language Processing	
CSCI-SHU 381	Recommendation Systems	
DATS-SHU 200	Topics in Machine Learning	
DATS-SHU 235	Information Visualization	
DATS-SHU 240	Introduction to Optimization and Mathematical Programming	
DATS-SHU 369	Machine Learning with Graphs	
DATS-SHU 377	Computer Vision	
Total Credits		8

Political Science

Course	Title	Credits
SOCS-SHU 150	Introduction to Comparative Politics	4
SOCS-SHU 160	Introduction to International Politics	4
Total Credits		8

Psychology

Course	Title	Credits
PSYC-SHU 101	Introduction to Psychology	4
Select two of the following:		8
PSYC-SHU 234	Developmental Psychology	
PSYC-SHU 352	Psychology of Human Sexuality	
SOCS-SHU 334	Legal Psychology	
SOCS-SHU 350	Empirical Research Practice	
Total Credits		12

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
CSCI-SHU 11	Introduction to Computer Programming	4
Language Course		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 235	Probability and Statistics	4
CSCI-SHU 101	Introduction to Computer and Data Science	4
Language Course		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
CSCI-SHU 210	Data Structures	4
MATH-SHU 151	Multivariable Calculus	4
Language Course or Concentration Course		4
Credits		16
4th Semester/Term		
MATH-SHU 140	Linear Algebra	4
CSCI-SHU 360	Machine Learning	4

ECON-SHU 301 or MATH-SHU 234	Econometrics or Mathematical Statistics	4
Language Course or Core Course		4
Credits		16
5th Semester/Term		
Core Course		4
CSCI-SHU 213	Databases	4
Concentration Course		4
General Elective		4
Credits		16
6th Semester/Term		
Core or General Elective		4
Core Class		4
Concentration Course or General Elective		4
General Elective		4
Credits		16
7th Semester/Term		
DATS-SHU 420	Data Science Senior Project	4
Data Science Concentration Course or General Elective		4
General Elective		4
Choose one of the following:		4
CSCI-SHU 220 Algorithms		
DATS-SHU 235 Information Visualization		
DATS-SHU 240 Introduction to Optimization and Mathematical Programming		
Credits		16
8th Semester/Term		
General Elective		4
General Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Learning Outcomes

Upon successful completion of this program, students will:

1. Develop the logical and mathematical capability to identify and analyze problems.
2. Develop proficiency in programming in a general purpose, high level programming language.
3. Have a sound understanding of the field of data science, and the ability to analyze, model and visualize data using some of its main methods to gain insights and make decisions.
4. Be able to combine mathematics, computer programming and data science tools to solve contemporary problems in a specialty area within data science such as biology, finance.

Policies

Program Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
2. Students who are admitted in Business and Econ Honors Program can enroll in ECON-SHU 453 Economics Honors Program or BUSF-

SHU 3 Business Honors Program to fulfill Data Science capstone requirement. For Data Science and Economic Double Major Students: Students who choose to enroll in ECON-SHU 453 Economics Honors Program to fulfill Data Science major capstone requirement would still need to take ECON-SHU 400 Economics Capstone Research to fulfill Economic major capstone requirement.

Prerequisite Courses for Declaring a Major

Final grade of C/current semester midterm grade of B or higher in Introduction to Computer Programming OR Introduction to Computer and Data Science + Calculus.

Policy on Double-Counting of Courses

Computer science and data science share many courses, so double-majoring is not allowed. However, students in data science can minor in computer science.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Data Science (Minor)

Program Description

Data Science at NYU Shanghai is designed to create data-driven leaders with a global perspective, a broad education, and the capacity to think creatively. Data science involves using computerized methods to analyze massive amounts of data and to extract knowledge from them. Data science addresses a wide range of data types, including scientific and economic numerical data, textual data, and image and video data. This new discipline draws from methodologies and tools in several well-established fields, including computer science, statistics, applied mathematics, and economics. Data science has applications in just about every academic discipline, including sociology, political science, digital humanities, linguistics, finance, marketing, urban informatics, medical informatics, genomics, image content analysis, and all branches of engineering and the physical sciences. The importance of data science is expected to accelerate in the coming years, as data from the web, mobile sensors, smartphones, and Internet-connected instruments continues to grow.

Students who complete the major will not only have expertise in computer programming, statistics, and data mining, but also know how to combine these tools to solve contemporary problems in a discipline of their choice, including the social science, physical science, and engineering disciplines. Upon graduation, data science majors have numerous career paths. Data Science majors can go on to graduate school in data science, computer science, social science, business, finance, medicine, law, linguistics, education, and so on. Outside of academia, there are also myriad career paths. Not only can graduates pursue careers with traditional data-driven computer-science companies and startups such as Google, Facebook, Amazon, and Microsoft, but also they can also be valuable to companies in the transportation, energy, medical, and financial sectors. Graduates can also pursue careers in the public sector, including urban planning, law enforcement, and education.

Program Requirements

Course	Title	Credits
Required Courses		
CSCI-SHU 101	Introduction to Computer and Data Science	4
CSCI-SHU 210	Data Structures	4
CSCI-SHU 360	Machine Learning	4
ECON-SHU 301	Econometrics	4
or MATH-SHU 234	Mathematical Statistics	
Select one of the following:		4
BUSF-SHU 101	Statistics for Business and Economics	
MATH-SHU 235	Probability and Statistics	
MATH-SHU 238	Honors Theory of Probability	
SOCS-SHU 141	Methods of Social Research	
Total Credits		20

Minor Policies

1. Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

2. Computer Science majors should additionally take DATS-SHU 235 Information Visualization Information Visualization or CSCI-SHU 213 Databases to earn at least 12 unique credits for the minor.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Economics (BA)

CIP: 45.0601

Program Description

Perhaps the best way to understand the world you live in is to understand the economics that drive it. The world is constantly and increasingly confronted with challenging issues that are essentially economic in character. Economic analysis provides a coherent and logical ordered

framework for examining these issues and understanding the tradeoffs involved in attempting to solve social and business problems.

The study of economics will enhance your fundamental analytic and quantitative skills. The curriculum strives to not simply just provide a very good undergraduate education for people interested in studying economics but also provides skills to pursue a wide variety of careers in both the private and public sectors. It leads naturally to careers in business, law, and in economics research and consulting, as well as provides a solid foundation for students who will pursue an MBA degree. Students who wish to attend graduate school in economics should take courses in mathematics beyond the requirements of the economics program.

The economics faculty at NYU Shanghai offers a rare combination of excellence in research and teaching. Many of the economics courses offer the advantage of a liberal arts college setting, including small class sizes and significant interaction between faculty and students. The economics curriculum at NYU Shanghai is designed to introduce students to these fundamental dynamics of human life and, in doing so, is grounded in three basic pedagogical principles:

- Undergraduate students must be exposed to the “big ideas” and pressing social issues of our world and given economic frameworks for thinking about them.
- Meaningful study of economics requires being able to think about problems from local, regional, and global perspectives.
- Understanding how individuals’ make decisions also requires incorporating insights from neuroscience and psychology.

More about the NYU Shanghai Economics Program can be found at <https://econ.shanghai.nyu.edu/>

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses ¹		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World		4
Science, Technology, and Society		4

Courses for the Economics Major

Required Courses			
ECON-SHU 1	Principles of Macroeconomics	4	
or ECON-SHU 251	Economics of Global Business		
ECON-SHU 3	Microeconomics	4	
ECON-SHU 10	Intermediate Microeconomics	4	
ECON-SHU 202	Intermediate Macroeconomics	4	
ECON-SHU 301	Econometrics	4	
MATH-SHU 235	Probability and Statistics	4	
or BUSF-SHU 101	Statistics for Business and Economics		
Economics Electives		24	
Advanced Economics Electives (At least 8 credits)			
Economics Electives			
Economics Capstone Seminar or Economics Honors Seminar ¹			
Other Elective Credits		28-36	
Total Credits		128	

¹ The Economics Capstone Seminar involves a two-course, two-semester sequence requiring four credits. The Economics Honors Seminar is only for students admitted to the Business and Economics Honors Program, which is also conducted in a two-course, two-semester sequence requiring four credits.

Advanced Economic Electives

Code	Title	Credits
ECON-SHU 210	Market Design	4
ECON-SHU 217	Topics in Economics: Financial Technology	4
ECON-SHU 225	Advanced Economic Theory	4
ECON-SHU 315	Competitive Analysis	4
ECON-SHU 336	Advanced Macroeconomics	4
ECON-SHU 402	Advanced Econometrics	4
ECON-SHU 416	Game Theory: Advanced Applications	4

Economic Electives

Code	Title	Credits
BPEP-SHU 9042	The Political Economy of East Asia	4
ECON-SHU 151	Sustainable Business Practices and Development Economics	4
ECON-SHU 208	Money and Banking	4
ECON-SHU 216	Introduction to Game Theory	4
ECON-SHU 218	International Trade and the Chinese Economy	4
ECON-SHU 219	International Economics	4
ECON-SHU 221	China’s Financial System	4
ECON-SHU 222	Cooperation, Coordination, Collective Action	4
ECON-SHU 232	Blockchain, Cryptocurrency, and Money	4
ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective	4
ECON-SHU 239	China’s Economic Transition	4
ECON-SHU 255	Political Economy: Foundations and Recent Applications	4
ECON-SHU 335	Development Economics	4
ECON-SHU 342	Behavioral Economics	4

ECON-SHU 351	Labor Economics	4
ECON-SHU 353	Public Economics	4
ECON-SHU 356	Antitrust and Competition Policy in the Digital Era	4
ECON-SHU 360	Experimental Economics	4
ECON-SHU 368	Financial Economics	4
ECON-SHU 997	Economics Independent Study	2-4
MATH-SHU 160	Networks and Dynamics	4

Economics Capstone Electives

Course	Title	Credits
ECON-SHU 400	Economics Capstone Seminar	2
ECON-SHU 453/ BUSF-SHU 3	Economics Honors Seminar	2

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
ECON-SHU 1	Principles of Macroeconomics	4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 101	Writing as Inquiry: WI	4
ECON-SHU 3	Microeconomics	4
MATH-SHU 235	Probability and Statistics	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
ECON-SHU 10	Intermediate Microeconomics	4
ECON-SHU 1	Principles of Macroeconomics	4
or ECON-SHU 301	or Econometrics	
Chinese or Core Course		4
Credits		16
4th Semester/Term		
ECON-SHU 202	Intermediate Macroeconomics	4
ECON-SHU 9301	Econometrics	4
or MATH-SHU 151	or Multivariable Calculus	
Economics Elective or Core		4
Chinese or Core Course		4
Credits		16
5th Semester/Term		
Core Class		4
Economics Elective		4
General Elective		4
General Elective		4
Credits		16
6th Semester/Term		
Core Class		4
Economics Elective		4
Advanced Economics Elective		4
General Elective		4
Credits		16
7th Semester/Term		
Core Class		4
Economics Capstone Elective		2
Advanced Economics Elective		4
General Elective		4

General Elective	4
Credits	18
8th Semester/Term	
Core Class	4
Economics Capstone Elective	2
General Elective	4
General Elective	4
Credits	14
Total Credits	128

Learning Outcomes

Upon successful completion of the program, students will display:

1. Proficiency in critical thinking. Students are able to work in an independent fashion to analyze the logical essentials of a problem. They understand basic microeconomic and macroeconomic concepts and can apply them to analyze real-world events.
2. Proficiency in written and oral communication. Students are able to write coherent and accurate reports when analyzing current economic events and when interpreting their own findings. They can deliver effective oral presentations that explain economic concepts, and they know how to justify their economic analysis carefully and accurately. They demonstrate computer literacy in the preparation of reports and presentations.
3. Proficiency in neoclassical economic analysis. Students are sufficiently prepared to be able to understand the contributions of current research papers and of other current work in neoclassical microeconomics and macroeconomics. They are able to use the concepts they encounter to analyze contemporary economics events and policies.
4. Proficiency in behavioral Economic analysis. Students are able to articulate the limitations of neoclassical economic analysis and can also appreciate how insights from psychology, neuroscience, and other cognitive sciences can expand the explanatory power of economic analysis and can reshape the design of public policies.
5. Proficiency in empirical analysis. Students understand how to turn economic theories into testable hypotheses. They can work independently to collect and use economic data from a wide variety of sources and can conduct empirical tests of hypothesized relationships. They have familiarity with a range of research designs that can help uncover causal relationships in data. Students have achieved an effective working knowledge of current statistical software and data management tools.
6. Interpret data through various forms of evidence by employing qualitative and quantitative methods by means of appropriate research design, rigorous investigation, and critical analysis of a wide range of social phenomena.

Policies

Core Language Requirement

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Prerequisite Courses for Declaring a Major

Final grade of C/current semester midterm grade of B or higher in Microeconomics.

Calculus Requirement

Economic major students must either take MATH-SHU 131 Calculus, place out of Calculus, or take Honors Calculus, in order to satisfy the Mathematics requirement in the core curriculum.

Economics and Data Science Double Major Guidelines

Students who are interested in pursuing a Data Science major along with an Economics major have the option to double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

Economics and Data Science (Concentration in Economics)

Course	Title	Credits
MATH-SHU 235	Probability and Statistics	4
or BUSF-SHU 101	Statistics for Business and Economics	
ECON-SHU 3	Microeconomics	4
or ECON-SHU 2		
ECON-SHU 301	Econometrics	4
MATH-SHU 140	Linear Algebra ¹	4
MATH-SHU 151	Multivariable Calculus ¹	4

¹ Students who take both Linear Algebra and Multivariable Calculus can substitute Mathematics for Economists (Advanced Economics Elective) with these two courses. If the student chooses this option, they would need to take one Additional approved quantitative economics course.

Economics and Data Science (Concentration in Finance)

Course	Title	Credits
MATH-SHU 235	Probability and Statistics	4
or BUSF-SHU 101	Statistics for Business and Economics	
ECON-SHU 3	Microeconomics	4
or ECON-SHU 2		
MATH-SHU 140	Linear Algebra ²	4
MATH-SHU 151	Multivariable Calculus ²	4

² Students who take both Linear Algebra and Multivariable Calculus can substitute Mathematics for Economists (Advanced Economics Elective) with these two courses.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Economics (Minor)

Program Description

Perhaps the best way to understand the world you live in is to understand the economics that drive it. The world is constantly and increasingly confronted with challenging issues that are essentially economic in character. Economic analysis provides a coherent and logical ordered framework for examining these issues and understanding the tradeoffs involved in attempting to solve social and business problems.

The study of economics will enhance your fundamental analytic and quantitative skills. The curriculum strives to not simply just provide a very good undergraduate education for people interested in studying economics but also provides skills to pursue a wide variety of careers in both the private and public sectors. It leads naturally to careers in business, law, and in economics research and consulting, as well as provides a solid foundation for students who will pursue an MBA degree. Students who wish to attend graduate school in economics should take courses in mathematics beyond the requirements of the economics program.

The economics faculty at NYU Shanghai offers a rare combination of excellence in research and teaching. Many of the economics courses offer the advantage of a liberal arts college setting, including small class sizes and significant interaction between faculty and students. The economics curriculum at NYU Shanghai is designed to introduce students to these fundamental dynamics of human life and, in doing so, is grounded in three basic pedagogical principles:

- Undergraduate students must be exposed to the “big ideas” and pressing social issues of our world and given economic frameworks for thinking about them.
- Meaningful study of economics requires being able to think about problems from local, regional, and global perspectives.
- Understanding how individuals’ make decisions also requires incorporating insights from neuroscience and psychology.

More about the NYU Shanghai Economics Program can be found at <https://econ.shanghai.nyu.edu/>

Program Requirements

Course	Title	Credits
Select one of the following:		
BUSF-SHU 101	Statistics for Business and Economics	4
MATH-SHU 235	Probability and Statistics	
MATH-SHU 238	Honors Theory of Probability	
MATH-SHU 234	Mathematical Statistics	
ECON-SHU 1 or ECON-SHU 251	Principles of Macroeconomics Economics of Global Business	4
ECON-SHU 3	Microeconomics	
ECON-SHU 202	Intermediate Macroeconomics	

or ECON-SHU 10	Intermediate Microeconomics	
Economics Elective		4
Economics Elective		4
Total Credits		24

Advanced Economics Electives

Code	Title	Credits
ECON-SHU 210	Market Design	4
ECON-SHU 217	Topics in Economics: Financial Technology	4
ECON-SHU 225	Advanced Economic Theory	4
ECON-SHU 315	Competitive Analysis	4
ECON-SHU 336	Advanced Macroeconomics	4
ECON-SHU 402	Advanced Econometrics	4
ECON-SHU 416	Game Theory: Advanced Applications	4

Economics Electives

Code	Title	Credits
BPEP-SHU 9042	The Political Economy of East Asia	4
ECON-SHU 151	Sustainable Business Practices and Development Economics	4
ECON-SHU 208	Money and Banking	4
ECON-SHU 216	Introduction to Game Theory	4
ECON-SHU 218	International Trade and the Chinese Economy	4
ECON-SHU 219	International Economics	4
ECON-SHU 221	China's Financial System	4
ECON-SHU 222	Cooperation, Coordination, Collective Action	4
ECON-SHU 232	Blockchain, Cryptocurrency, and Money	4
ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective	4
ECON-SHU 239	China's Economic Transition	4
ECON-SHU 255	Political Economy: Foundations and Recent Applications	4
ECON-SHU 335	Development Economics	4
ECON-SHU 342	Behavioral Economics	4
ECON-SHU 351	Labor Economics	4
ECON-SHU 353	Public Economics	4
ECON-SHU 356	Antitrust and Competition Policy in the Digital Era	4
ECON-SHU 360	Experimental Economics	4
ECON-SHU 368	Financial Economics	4
ECON-SHU 997	Economics Independent Study	2-4
MATH-SHU 160	Networks and Dynamics	4

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the

minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Electrical and Systems Engineering (BS)

CIP: 14.1001

Program Description

Electrical and Systems Engineering at NYU Shanghai is designed to create technological leaders with a global perspective, a broad education, and the capacity to think creatively. Innovations by electrical engineers touch every aspect of modern life, from the subway systems beneath our cities to the HD televisions on our walls to the smartphones in our pockets. But this process of innovation is never complete, and new challenges await tomorrow's electrical engineers.

The Electrical and Systems Engineering program draws upon courses across an array of disciplines. The liberal arts core provides the intellectual breadth, a "license to learn," preparing students to thrive in a multicultural globalized world and to learn and adapt quickly in areas that evolve with ever-increasing swiftness. Students not only gain a firm grounding across various science and engineering fields that underscore the technical component of an engineering education, but also draw upon courses to develop an understanding of cultural, political, economic, environmental, and public safety considerations. These studies often include hands-on coursework in state-of-the-art laboratories. In addition, the variety of specialized subjects students can investigate through elective coursework — from wireless communication to smart grid power systems — ensures a highly flexible education suited to individual interests.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4

<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Requirement Fulfilled by Major Coursework		
<i>Science</i>		
PHYS-SHU 11	General Physics I	3
PHYS-SHU 12	General Physics II	3
PHYS-SHU 94	Foundations of Physics Lab II	2
Major Requirements		
CENG-SHU 201	Digital Logic	4
CSCI-SHU 11	Introduction to Computer Programming	4
or CSCI-SHU 101	Introduction to Computer and Data Science	
EENG-SHU 251	Circuits	4
EENG-SHU 400	Senior Capstone Design Project I	4
ECE-UY 3054	Signals and Systems ¹	4
or ENGR-UH 3610	Signals and Systems	
ECE-UY 3114	Fundamentals of Electronics I ¹	4
or ENGR-UH 3611	Electronics	
ECE-UY 3604	Electromagnetic Waves ¹	4
or PHYS-UH 2115	Electricity and Magnetism for Engineers	
MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 235	Probability and Statistics	4
or MATH-SHU 238	Honors Theory of Probability	
MATH-SHU 265	Linear Algebra and Differential Equation	4
or MATH-SHU 140	Linear Algebra	
or MATH-SHU 160	Networks and Dynamics	
<i>Electives</i>		
Select two of the following:		8
ECE-UY 3404	Fundamentals of Communication Theory ¹	
ECE-UY 3064	Feedback Control (offered in New York) ¹	
ECE-UY 3124	Fundamentals Of Electronics II ¹	
ECE-UY 3824	Electric Energy Conversion Systems ¹	
Select two of the following:		8
CSCI-SHU 308	Computer Networking	
CSCI-SHU 350	Embedded Computer Systems	
ECE-UY 3193	Introduction to Very Large Scale Integrated Circuits ¹	
ECE-UY 3404	Fundamentals of Communication Theory ¹	
ROB-UY 2004	Robotic Manipulation and Locomotion ¹	
Other Elective Credits		32-40
Total Credits		128

¹ Courses will not be offered in Shanghai. Students are required to complete these required major courses from NYU New York or NYU Abu Dhabi.

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
CSCI-SHU 11 or CSCI-SHU 101	Introduction to Computer Programming or Introduction to Computer and Data Science	4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 265	Linear Algebra and Differential Equation	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
PHYS-SHU 11 or PHYS-SHU 91	General Physics I or Foundations of Physics I Honors	3
CENG-SHU 201	Digital Logic	4
Chinese or Core Course		4
Credits		15
4th Semester/Term		
Core or General Elective		4
PHYS-SHU 12 or PHYS-SHU 93	General Physics II or Foundations of Physics II Honors	3
PHYS-SHU 94	Foundations of Physics Lab II	2
EENG-SHU 251	Circuits	4
Chinese or Core Course		4
Credits		17
5th Semester/Term		
Core or General Elective		4
ENGR-UH 3611	Electronics	4
ENGR-UH 3610	Signals and Systems	4
ECE-UY 3604	Electromagnetic Waves	4
Credits		16
6th Semester/Term		
Electrical and Systems Engineering Elective		4
Electrical and Systems Engineering Elective		4
Electrical and Systems Engineering Elective		4
Electrical and Systems Engineering Elective		4
Credits		16
7th Semester/Term		
MATH-SHU 235 or MATH-SHU 238	Probability and Statistics or Honors Theory of Probability	4
EENG-SHU 400	Senior Capstone Design Project I	4
General Elective		4
General Elective		4
Credits		16
8th Semester/Term		
Core or General Elective		4
General Elective		4
General Elective		4

General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of the program, students will:

- 1. Have an understanding of the fundamental technical subject areas associated with engineering.
- 2. Be able to incorporate knowledge of mathematics, science and engineering to solve technical problems.
- 3. Have the ability to communicate and function effectively in an interdisciplinary team environment.
- 4. Be effective life-long learners including demonstrating professional and ethical responsibilities.

Policies

Program Policies

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II . Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Prerequisite Courses for Declaring a Major

Final grade of C/current semester midterm grade of B or higher in Calculus + Digital Logic OR Circuits.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Electrical and Systems Engineering (Minor)

Program Description

Electrical and Systems Engineering at NYU Shanghai is designed to create technological leaders with a global perspective, a broad education, and the capacity to think creatively. Innovations by electrical engineers touch every aspect of modern life, from the subway systems beneath our cities to the HD televisions on our walls to the smartphones in our pockets. But this process of innovation is never complete, and new challenges await tomorrow's electrical engineers.

The Electrical and Systems Engineering program draws upon courses across an array of disciplines. The liberal arts core provides the intellectual breadth, a “license to learn,” preparing students to thrive in a multicultural globalized world and to learn and adapt quickly in areas that evolve with ever-increasing swiftness. Students not only gain a firm grounding across various science and engineering fields that underscore the technical component of an engineering education, but also draw upon courses to develop an understanding of cultural, political, economic,

environmental, and public safety considerations. These studies often include hands-on coursework in state-of-the-art laboratories. In addition, the variety of specialized subjects students can investigate through elective coursework — from wireless communication to smart grid power systems — ensures a highly flexible education suited to individual interests.

Program Requirements

Course	Title	Credits
CENG-SHU 201	Digital Logic	4
Select one of the following:		4
CSCI-SHU 11	Introduction to Computer Programming	
INTM-SHU 101	Interaction Lab	
EENG-SHU 251	Circuits	4
Electrical and Systems Engineering Elective		4
Total Credits		16

Electrical and Systems Engineering Electives

Code	Title	Credits
CSCI-SHU 308	Computer Networking	4
CSCI-SHU 350	Embedded Computer Systems	4
CSCI-SHU 361	Computer Security	4
EENG-SHU 997	Electrical and Systems Engineering Independent Study	2-4

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Global China Studies (BA)

CIP: 05.0123

Program Description

China is once again a major force in the world. Beyond the scope of conventional area studies, the innovative interdisciplinary major in Global China Studies allows students to cultivate up-to-date knowledge and

critical skills about China. It aims at deepening their understanding of China's interactions with the wider world as well as comprehending the trends within China, at individual, societal, state, and global levels, and in the context of socio-economic, religious, cultural, and political transformations.

The Global China Studies major offers two options. Students may opt to take the track that requires an extensive study of China in a global setting through the completion of an interdisciplinary curriculum without the need for additional Chinese language courses. They could also choose the advanced track option, which trains students to acquire a higher level of Chinese proficiency in addition to developing focused research skills needed for postgraduate professional and academic pursuits. In either case, majors in Global China Studies will graduate with the capacity to become qualified practitioners and thinkers of a changing China in the world.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Students pursuing the Global China Studies program must complete the Core Requirements listed below and one of the two major tracks. In addition, they must take additional credits to meet the minimum of 128 credits required for Graduation.

Regular Track

This track is for students interested in developing in-depth knowledge about China through the study of Chinese history, society, literature, arts, and politics in a global setting with an emphasis on innovative research methods. Students must take a wide range of courses on China and are encouraged to complete a minor of their choosing. This track is recommended for students who plan to seek employment in the private sector, research institutions, or admission into graduate school.

Advanced Track

This advanced track is for students interested in combining advanced training in the Chinese language with a deep knowledge of Chinese history, society, literature, arts, and politics in a global setting, as well as with an exploration of innovative research methodologies. It is recommended for students who plan to seek admission into graduate school, or employment in research institutions, governmental and non-governmental organizations in China or elsewhere that focus on China-related issues.

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses ¹		8-16

Mathematics

Mathematics Course 4

Algorithmic Thinking

Algorithmic Thinking Course 4

Science

Experimental Discovery in the Natural World Course 4

Science, Technology and Society Course 4

Courses for the Global China Studies Major**Required Courses**

GCHN-SHU 110 The Concept of China 4

GCHN-SHU 400 Global China Studies Senior Capstone Seminar I 4

GCHN-SHU 401 Global China Studies Senior Capstone Seminar II 4

China and the World 4-8

Select two of the following (Students in the Advanced Track select one):

GCHN-SHU 164 The History of the Silk Road

GCHN-SHU 165 China and the Islamic World, c.600AD-Present

GCHN-SHU 234 Dunhuang and Its Global Connections

GCHN-SHU 264 Chinese Migrant and Diasporic Networks

HIST-SHU 250

HIST-SHU 312

SCA-SHU 9634

SOCS-SHU 341 Cross-Strait Relations

Global China Studies Electives 12-16

Choose four courses from the lists (Students in the Advanced Track select three), with at least one course from each of the following three categories:

Chinese History, Society, and Culture

Chinese Media, Arts, and Literature

The Politics, Economy, and Environment of China

Language Courses (Students in Advanced Track only) 0-8

Select two of the following:

Non-Native Chinese Speakers

Any two Chinese language courses on or beyond the level of Advanced I (e.g., Advanced I & II; or Advanced II & one post-advanced course; or two post-advanced courses)

Native Chinese Speakers

Required to further develop their academic reading and writing skills as well as Classical Chinese reading abilities through two of the following classes:

GCHN-SHU 283 Reading and Viewing Modern China

GCHN-SHU 233 Foreign Societies in Classical Chinese Writing

GCHN-SHU 255 Eat, Pray, Ponder: Chinese Intellectual Culture through the Ages

GCHN-SHU 316 Chinese Art and Architecture in Cross-cultural Contexts

Other courses with special requirements (ask GCS Area Leader)

Chinese for Advanced Undergraduate Research (Students in Advanced Track only) 0-4

Select one of the following:

GCHN-SHU 200 Topics in Global China Studies

GCHN-SHU 233 Foreign Societies in Classical Chinese Writing

GCHN-SHU 283 Reading and Viewing Modern China

GCHN-SHU 316 Chinese Art and Architecture in Cross-cultural Contexts

Electives

Other Elective Credits 44-48

Total Credits 128**Global China Studies Electives****Chinese History, Society, and Culture**

Courses in this category focus on the examination of aspects and periods of Chinese history, social values and conditions, and cultural traditions and practices.

Code	Title	Credits
GCHN-SHU 101	Introduction to Chinese Civilization	4
GCHN-SHU 102	History of Modern China Since 1840	4
GCHN-SHU 108	THE WORLD OF YUNNAN: Culture, History, and Life Along China's Southwestern Borderlands	4
GCHN-SHU 128	The Buddha, His Teachings, and His Followers	4
GCHN-SHU 145	Food in Chinese History	4
GCHN-SHU 165	China and the Islamic World, c.600AD-Present	4
GCHN-SHU 216	Psychology and Modernity in China	4
GCHN-SHU 226	Queer China	4
GCHN-SHU 247	Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors.	4
GCHN-SHU 248	Animals and Chinese Religion	4
GCHN-SHU 255	Eat, Pray, Ponder: Chinese Intellectual Culture through the Ages	4
GCHN-SHU 267	Good Death: China and Comparative Perspectives	4
GCHN-SHU 277	Medicine in China	4
GCHN-SHU 283	Reading and Viewing Modern China	4
GCHN-SHU 318	Sex and Power in China, 1500–1950	4
HIST-SHU 103	Oral History: Method and Practice	4
INTM-SHU 267	The Cultivated City	4
PHIL-SHU 105	Introduction to Chinese Philosophy	4
PHIL-SHU 110	Traditional Chinese Political and Legal Philosophy	4
SOCS-SHU 236	The Chinese Family	4
SOCS-SHU 254	Ethnographies of Change in China	4
SOCS-SHU 265	Population and Society	4

Chinese Media, Arts, and Literature

Courses in this category examine the artistic and literary productions by the Chinese in and outside China, as well as the trends in print, audio-visual, digital and social media.

Code	Title	Credits
ART-SHU 274	Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form	4

GCHN-SHU 111	Shanghai Stories	4
GCHN-SHU 112	China Stories: Traditions and Transformations	4
GCHN-SHU 126	The Media in China	4
GCHN-SHU 156	History of Chinese Art	4
GCHN-SHU 182	Crimes, Detectives, and Justice in Chinese Culture	4
GCHN-SHU 185	China in Ten Soundtracks: The Sonic World of Modern Chinese Culture	4
GCHN-SHU 205	Hong Kong Cinema	4
GCHN-SHU 206	Woman in Modern China Through Literature and Media	4
GCHN-SHU 207	20th-century Chinese Writers in Global Context	4
GCHN-SHU 211	Chinese Architecture	4
GCHN-SHU 220	History of Chinese Cinemas	4
GCHN-SHU 225	Cultural Translations: China and the West	4
GCHN-SHU 236	Immersive Narrative of Chinese Monuments	4
GCHN-SHU 263	Voices from the Margin: Modern Chinese and Sinophone Writers	4
HUMN-SHU 229	Masters of Asian Cinema	4
INTM-SHU 266	Digital Heritage	4
INTM-SHU 268	Acoustic Ethnography of the Yangtze Delta	4
INTM-SHU 308	Advanced Lab: Mixed Reality and Cultural Heritage	4
JOUR-SHU 203	Journalism and Society in China	4

The Politics, Economy, and Environment of China

Courses in this category examine the contemporary political, economic, legal, and environmental theories, policies, and practices in the People's Republic of China.

Code	Title	Credits
BPEP-SHU 9042	The Political Economy of East Asia	4
BUSF-SHU 188	Chinese Business and Finance -- A Bilingual Introduction	4
BUSF-SHU 288	Doing Business with China	4
CHIN-SHU 429	Chinese Business and Finance -- A Bilingual Introduction	4
ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective	4
GCHN-SHU 123	Contemporary Chinese Political Thought	4
GCHN-SHU 133	Visualizing Global China	4
GCHN-SHU 243	China and the Environment	4
GCHN-SHU 246	Youth and Consumer Culture in China	4
GCHN-SHU 250	Geographies of China	4
GCHN-SHU 265	Women in China: From May 4th to Me Too & Beyond	4
PHIL-SHU 255	Habermas and Chinese Modernity	4
SOCs-SHU 133	Urbanization in China	4
SOCs-SHU 160	Introduction to International Politics	4
SOCs-SHU 275	US-China Relations	4
SOCs-SHU 370	China's Foreign Policy	4

Sample Plan of Study

Regular Track

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4

Core Class		4
Core Class		4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
GCHN-SHU 110	The Concept of China	4
Core Class		4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
China and the World Course		4
Global China Studies Elective		4
Chinese or Core		4
Credits		16
4th Semester/Term		
China and the World Course		4
Global China Studies Elective		4
Core Class		4
Chinese or Core		4
Credits		16
5th Semester/Term		
Global China Studies Elective		4
General Elective		4
General Elective		4
General Elective		4
Credits		16
6th Semester/Term		
Global China Studies Elective		4
General Elective		4
General Elective		4
General Elective		4
Credits		16
7th Semester/Term		
GCHN-SHU 400	Global China Studies Senior Capstone Seminar I	4
Core Class		4
General Elective		4
General Elective		4
Credits		16
8th Semester/Term		
GCHN-SHU 401	Global China Studies Senior Capstone Seminar II	4
General Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Advanced Track

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
Core Class		4
Core Class		4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
GCHN-SHU 110	The Concept of China	4
Core Class		4

Chinese or EAP	4
Credits	16
3rd Semester/Term	
WRIT-SHU 201 Perspectives on the Humanities	4
China and the World Course	4
Advanced Chinese Course	4
Core Course or General Elective	4
Credits	16
4th Semester/Term	
Global China Studies Elective	4
Advanced Chinese Course 2	4
Core Class	4
Core Course or General Elective	4
Credits	16
5th Semester/Term	
Global China Studies Elective	4
General Elective	4
General Elective	4
General Elective	4
Credits	16
6th Semester/Term	
Global China Studies Elective	4
Chinese for Advanced Undergraduate Research	4
General Elective	4
General Elective	4
Credits	16
7th Semester/Term	
GCHN-SHU 400 Global China Studies Senior Capstone Seminar I	4
Core Class	4
General Elective	4
General Elective	4
Credits	16
8th Semester/Term	
GCHN-SHU 401 Global China Studies Senior Capstone Seminar II	4
General Elective	4
General Elective	4
General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify individual, cultural, social, economic, and political forces that shape our world, in both historical and contemporary perspective, with a demonstrated appreciation of China and its relation to the region and the world.
2. Develop multidisciplinary expertise about the ways in which global trends affect China's evolution and how in turn the process of China's internal change has been (re)shaping the global community.
3. Demonstrate a high level of proficiency in using Chinese sources/ data for research.
4. Develop the skills to conduct substantive research in and about China independently, through an understanding on how to access relevant materials, engage in data collection (both of the quantitative and qualitative kind) and analyze them with the same degree of rigor expected in core the disciplines of the humanities and Global China Studies.

5. Interpret data by employing qualitative and quantitative methods or critically analyze sources of information to understand a wide range of social phenomena.

Policies

- Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
- Study Abroad: Students enrolled in this track may study abroad for a maximum of two semesters.

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in any required Global China Studies course.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Global China Studies (Minor)

Program Description

China is once again a major force in the world. Beyond the scope of conventional area studies, the innovative interdisciplinary minor in Global China Studies allows students to cultivate up-to-date knowledge and critical skills about China. It aims at deepening their understanding of China's interactions with the wider world as well as comprehending the trends within China, at individual, societal, state, and global levels, and in the context of socio-economic, religious, cultural, and political transformations.

Program Requirements

Course	Title	Credits
Select one of the following:		4
GCHN-SHU 110	The Concept of China	
One China and the World Course		
One Global China Studies Elective		4
One Global China Studies Elective ¹		4
One Global China Studies Elective ¹		4

¹ Students may take up to two advanced or post-advanced language courses in fulfillment of this minor.

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding

of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

History (Minor)

Program Description

History is how we make sense of the past. Drawing on primary and secondary materials, students engage with the present-day norms and values we take for granted, showing how they developed and changed in cultures and societies across time and space. Across a wide range of topics, periods and world regions, history minors learn how to research historical problems and navigate historiographical controversies, so as to understand their own position in today's complex world. A minor in History trains students in critical thinking, thoughtful argumentation and historical analysis.

Program Requirements

Course	Title	Credits
Four courses from the Required and Elective lists of Humanities major History courses.		16
Total Credits		16

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Honors Mathematics (BS)

CIP: 27.0101

Program Description

Mathematics forms the cornerstone of the sciences, playing a powerful dual role as both a pure science and a tool for solving problems and modeling phenomena in other disciplines. For example, mathematics allows us to build efficient algorithms in computing, investigate rare events in financial markets, model the physical universe, develop predictions for climate science, map and study the human genome, and analyze the structure of the human brain. Mathematics draws vitality from questions arising in the natural world, as well as applications to industry and technology, and yet it is grounded in rigor and abstraction.

Students wishing to major in Honors Mathematics must have achieved a general GPA of 3.65 or higher, and a GPA of 3.65 or higher in the major sequence. The earliest students are able to declare the major is after completion of Honors Analysis I and Honors Linear Algebra II and posting of their spring semester freshman year grades. If the GPA requirements are not met, the students may graduate as Mathematics majors but retain the Honors designation of the individual courses they took on their transcripts.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		
Language Courses		8-16
Mathematics		
Mathematics Requirement Fulfilled by Major Coursework		
Algorithmic Thinking		
Algorithmic Thinking Course		4
Science		
Experimental Discovery in the Natural World Course		4
Science, Technology and Society Course		4

Major Requirements

Required Mathematics Courses		
MATH-SHU 141	Honors Linear Algebra I	4
MATH-SHU 142	Honors Linear Algebra II	4
MATH-SHU 238	Honors Theory of Probability	4
MATH-SHU 328	Honors Analysis I	4
MATH-SHU 329	Honors Analysis II	4
MATH-SHU 339	Real Variables	4
MATH-SHU 348	Honors Algebra I	4
MATH-SHU 362	Honors Ordinary Differential Equations	4
Math Electives		
Select five of the following:		20
MATH-SHU 160	Networks and Dynamics	
MATH-SHU 226	Functional Analysis	
MATH-SHU 234	Mathematical Statistics	
MATH-SHU 250	Mathematics of Finance	
MATH-SHU 251	Introduction to Math Modeling	
MATH-SHU 252	Numerical Analysis	
MATH-SHU 263	Partial Differential Equations	
MATH-SHU 282	Functions of a Complex Variable	
MATH-SHU 329	Honors Analysis II	
MATH-SHU 345	Introduction to Stochastic Processes	
MATH-SHU 349	Abstract Algebra I	
MATH-SHU 350	Probability Limit Theorems	
MATH-SHU 377	Differential Geometry	
MATH-SHU 997	Independent Study: Mathematics	
Senior Thesis		
Other Elective Credits		28-36
Total Credits		128

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 201	Honors Calculus	4
MATH-SHU 141	Honors Linear Algebra I	4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 328	Honors Analysis I	4
MATH-SHU 142	Honors Linear Algebra II	4

Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
MATH-SHU 329	Honors Analysis II	4
MATH-SHU 362	Honors Ordinary Differential Equations	4
Chinese or Core Course		4
Credits		16
4th Semester/Term		
MATH-SHU 339	Real Variables	4
MATH-SHU 238	Honors Theory of Probability	4
Core Class		4
Chinese or Core Course		4
Credits		16
5th Semester/Term		
Core Class		4
Math Elective		4
Math or General Elective		4
Core or General Elective		4
Credits		16
6th Semester/Term		
Core Class		4
Math Elective		4
Math or General Elective		4
General Elective		4
Credits		16
7th Semester/Term		
MATH-SHU 348	Honors Algebra I	4
Math Elective or General Elective		4
General Elective		4
General Elective		4
Credits		16
8th Semester/Term		
Math Elective		4
Math Elective or General Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Learning Outcomes

Upon successful completion of this program, students will:

1. Understand the fundamental theorems of analysis, master the ideas of their proofs and learn how to apply them.
2. Understand the fundamental theorems of algebra, geometry and probability, master the ideas of their proofs and learn how to apply them.
3. Develop computational skills in mathematics and apply them to concrete problems.

Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic

Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

2. Students are strongly encouraged to complete the Required Mathematics Courses before starting their Mathematics Electives.
3. In their senior year, each Honors Mathematics student is additionally required to complete a capstone project, ending with a written report and an oral presentation.

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Analysis I + Honors Linear Algebra II [Both must be completed, not in progress] + Cumulative GPA 3.65 or higher in all classes and in Math classes.

Major Policies

Honors Math and Data Science Double Major Guidelines

Students who are interested in pursuing a Data Science major along with an Honors Mathematics major can have more than two courses that may be double-counted between the majors. Students would need to complete course requirements for both majors. The following courses are allowed to double counted toward both majors:

Honors Math and Data Science (Concentration in Mathematics)

- MATH-SHU 141 Honors Linear Algebra I
- MATH-SHU 142 Honors Linear Algebra II
- MATH-SHU 238 Honors Theory of Probability
- MATH-SHU 329 Honors Analysis II

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Humanities (BA)

CIP: 24.0103

Program Description

The Humanities major combines a rigorous general education in the humanities with a concentrated focus on a particular discipline or theme. The requirements for the major are designed to allow students to construct a program of study that fits their own intellectual interests.

The curriculum is cross-cultural in foundation and reflects the interdisciplinary strength of our faculty in areas including art history, philosophy, literature, religion, film and media, the visual and performing arts, gender and sexuality studies, and science and technology studies. The Humanities faculty teach courses that span the globe, covering the histories and contemporary cultures of Asia, Africa, Europe and the Americas. In these courses, students learn to employ multiple disciplinary perspectives and to engage with a wide range of different sources, from literary fiction to courtroom trial transcripts, from classical paintings to contemporary political cartoons and posters.

The Humanities major provides students with advanced skills in critical reading, academic writing, visual arts creation, interpretation, analysis and argument that are highly valuable and readily transferable to a spectrum of careers, including law, cultural production, contemporary art curation, journalism, and non-fiction writing. While some Humanities majors pursue post-graduate degrees, many others successfully use the skills they develop in their Humanities studies to pursue a wide range of career paths.

In introductory and foundations courses, students acquire a set of methods for humanistic inquiry. Students then develop an area of thematic or disciplinary focus by choosing advanced courses in Shanghai and other NYU sites in consultation with their advisors. While students may choose to focus on a particular discipline, at least one advanced course must be explicitly interdisciplinary in orientation. In their senior year, students take the two semester Capstone Course sequence and produce a final thesis that marks the culmination of their intellectual development.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
	Interdisciplinary Perspectives on China (Two Courses)	8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
Mathematics Course		4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World Course		4
Science, Technology, and Society		4
Major Requirements		
<i>Foundation Courses</i>		8
Choose at least two of the following:		
ART-SHU 101	What is Art?	
HIST-SHU 101	What is History	
HIST-SHU 102	What is Art History?	
HUMN-SHU 101	What is Literature?	
HUMN-SHU 110	What is Science and Technology Studies?	
HUMN-SHU 112	What is Human Geography?	

PHIL-SHU 101	What is Philosophy?	
<i>Introductory Courses</i>		8
Choose at least two of the following:		
HIST-SHU 130	Arab-Islamic Influence on the West	
HIST-SHU 205	History of Modern Medicine	
HIST-SHU 310	The Birth of Psychology	
HUMN-SHU 180	Korean Culture and Society through K-pop	
HUMN-SHU 182	Contemporary East Asian Media Culture	
HUMN-SHU 183	Global Environmental History	
HUMN-SHU 205	French Cinema: The Birth of the Seventh Art	
HUMN-SHU 231	Making Sense of Contemporary Art	
HUMN-SHU 140	Magic and Realism in Latin American Fiction	
HUMN-SHU 160	Translation in Theory and Practice	
PHIL-SHU 70	Logic	
PHIL-SHU 80	Philosophy of Mind	
PHIL-SHU 107	Great Works in Philosophy	
PHIL-SHU 115	Ethics and Society	
<i>Advanced Courses</i>		20
Choose at least five of the following:		
ART-SHU 180	East Asian Art in the World	
GCHN-SHU 210	China Encounters the World	
HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	
HIST-SHU 188	Empires in World History	
HIST-SHU 209	Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700	
HIST-SHU 265	The Emergence of the Modern Middle East and North Africa	
HIST-SHU 305	When Science Goes Wrong	
HUMN-SHU 190	Transnational Feminist Aesthetics and Politics	
HUMN-SHU 280	Writing Empire	
PHIL-SHU 110	Traditional Chinese Political and Legal Philosophy	
PHIL-SHU 200	Topics in Epistemology	
PHIL-SHU 205	Metaphysics	
<i>Advanced Interdisciplinary Courses</i>		4
Choose at least one of the following:		
ART-SHU 222	Site and Situation: Public Art	
HIST-SHU 330	Popular Culture and the Scientific Revolution	
HUMN-SHU 308	Legends & their Medieval Past: King Arthur, Robin Hood, Frodo Baggins, Daenerys Targaryen, and more	
PHIL-SHU 91	Philosophy of Biology	
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	
<i>Capstone Sequence</i>		
HUMN-SHU 400A	Humanities Capstone Seminar I	2

HUMN-SHU 401	Humanities Capstone Seminar	4
Other Elective Credits		38-46
Total Credits		128

Note: These are sample courses. This is not a complete list of courses that fulfill this requirement.

Other Humanities Introductory Courses

Code	Title	Credits
ART-SHU 101	What is Art?	4
ART-SHU 180	East Asian Art in the World	4
CRWR-SHU 159	Introduction to Creative Writing	4
GCHN-SHU 102	History of Modern China Since 1840	4
GCHN-SHU 110	The Concept of China	4
GCHN-SHU 111	Shanghai Stories	4
GCHN-SHU 156	History of Chinese Art	4
GCHN-SHU 164	The History of the Silk Road	4
GCHN-SHU 165	China and the Islamic World, c.600AD-Present	4
GCHN-SHU 210	China Encounters the World	4
GCHN-SHU 211	Chinese Architecture	4
GCHN-SHU 255	Eat, Pray, Ponder: Chinese Intellectual Culture through the Ages	4
GCHN-SHU 263	Voices from the Margin: Modern Chinese and Sinophone Writers	4
GCHN-SHU 264	Chinese Migrant and Diasporic Networks	4
HIST-SHU 101	What is History	4
HIST-SHU 102	What is Art History?	4
HIST-SHU 103	Oral History: Method and Practice	4
HIST-SHU 110	U.S. History through Literature and Film	4
HIST-SHU 130	Arab-Islamic Influence on the West	4
HIST-SHU 150	Asian American History	4
HIST-SHU 155	Chinese American History: From the California Gold Rush to the Cold War	4
HIST-SHU 156	Europe Since 1945	4
HIST-SHU 157	A Global History of Mathematics	4
HIST-SHU 188	Empires in World History	4
HIST-SHU 205	History of Modern Medicine	4
HIST-SHU 208	Europe's Long Twentieth Century	4
HUMN-SHU 101	What is Literature?	4
HUMN-SHU 110	What is Science and Technology Studies?	4
HUMN-SHU 125	Paris, I love you / Paris, je t'aime: Literature, Culture and Society in la Belle Epoque	4
HUMN-SHU 135	The Global Experimental: Modernism and Beyond	4
HUMN-SHU 140	Magic and Realism in Latin American Fiction	4
HUMN-SHU 160	Translation in Theory and Practice	4
HUMN-SHU 168	Penning the Self(ie): Orality, Literacy, Digitality, and the Literary Subject	4
HUMN-SHU 180	Korean Culture and Society through K-pop	4
HUMN-SHU 181	Gender and Sexuality in Modern Visual Culture	4
HUMN-SHU 182	Contemporary East Asian Media Culture	4
HUMN-SHU 183	Global Environmental History	4
HUMN-SHU 184	Urban Geography	4
HUMN-SHU 229	Masters of Asian Cinema	4

HUMN-SHU 231	Making Sense of Contemporary Art	4
HUMN-SHU 250	Love and Hate in the Time of Dragons	4
HUMN-SHU 284	Modern European Philosophy	4
NEUR-SHU 132	Meaning	4
PHIL-SHU 70	Logic	4
PHIL-SHU 80	Philosophy of Mind	4
PHIL-SHU 101	What is Philosophy?	4
PHIL-SHU 105	Introduction to Chinese Philosophy	4
PHIL-SHU 106	Ancient Greek and Roman Philosophy	4
PHIL-SHU 107	Great Works in Philosophy	4
PHIL-SHU 115	Ethics and Society	4
PHIL-SHU 220	Philosophy of Law	4
SOCs-SHU 130	Introduction to Political Theory	4
SOCs-SHU 245	Ethnographic Thinking	4

Other Humanities Advanced Courses

Code	Title	Credits
ART-SHU 222	Site and Situation: Public Art	4
CRWR-SHU 201T	Topics in Creative Writing: Creative Writing, Creative Translation: The Art of Literary Translation	4
CRWR-SHU 207	Introduction to Screenwriting	4
CRWR-SHU 221	Intermediate Poetry Workshop	4
CRWR-SHU 248	Writing the Novella	4
GCHN-SHU 123	Contemporary Chinese Political Thought	4
GCHN-SHU 145	Food in Chinese History	4
GCHN-SHU 205	Hong Kong Cinema	4
GCHN-SHU 233	Foreign Societies in Classical Chinese Writing	4
GCHN-SHU 247	Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors.	4
GCHN-SHU 250	Geographies of China	4
GCHN-SHU 283	Reading and Viewing Modern China	4
GCHN-SHU 311	Global Connections: Shanghai	4
HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	4
HIST-SHU 200	Topics in History:	4
HIST-SHU 209	Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700	4
HIST-SHU 220	Chinese American History: From the California Gold Rush to the Cold War	4
HIST-SHU 225	The Global Space Age	4
HIST-SHU 230	Life beyond Earth: Extraterrestrials since 1897	4
HIST-SHU 239	New York: History of the City and its People	4
HIST-SHU 265	The Emergence of the Modern Middle East and North Africa	4
HIST-SHU 280	The Two Koreas	4
HIST-SHU 301	Material Culture: History You Can Touch	4
HIST-SHU 303	Histories and Politics of Noise	4
HIST-SHU 305	When Science Goes Wrong	4
HIST-SHU 330	Popular Culture and the Scientific Revolution	4
HUMN-SHU 190	Transnational Feminist Aesthetics and Politics	4
HUMN-SHU 205	French Cinema: The Birth of the Seventh Art	4
HUMN-SHU 212	Paper City: Examining Urban Bureaucracies Ethnographically	4
HUMN-SHU 214	European Thought and Culture: 1750-1870	4

HUMN-SHU 215	Excavating Deep Time: Literature and the Human Condition	4
HUMN-SHU 235	In Conversation: Black and Chinese Artists	4
HUMN-SHU 240	Gender, Sexuality, and Culture	4
HUMN-SHU 280	Writing Empire	4
HUMN-SHU 308	Legends & their Medieval Past: King Arthur, Robin Hood, Frodo Baggins, Daenerys Targaryen, and more	4
INTM-SHU 194	Global Media Cultures	4
PHIL-SHU 90	Philosophy of Science	4
PHIL-SHU 91	Philosophy of Biology	4
PHIL-SHU 110	Traditional Chinese Political and Legal Philosophy	4
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
PHIL-SHU 204	Metaphysics and Epistemology: Perception	4
PHIL-SHU 205	Metaphysics	4
PHIL-SHU 206	Epistemology and Perception	4
PHIL-SHU 230	Philosophy of Physics	4
PHIL-SHU 255	Habermas and Chinese Modernity	4
PHIL-SHU 300	Kant	4
SOCs-SHU 228	Merchants, Chiefs, and Spirits	4
SOCs-SHU 254	Ethnographies of Change in China	4

Visual Arts Praxis Courses

Please note that these courses do not fulfill Humanities major requirements as listed above.

Course	Title	Credits
Visual Arts Praxis Foundational and Introductory Level Courses		
ART-SHU 103	Foundations in Visual Arts	4
ART-SHU 105	Actions and Gestures - Embodied Media as Performance Art	2
ART-SHU 211	Foundations in Painting: Painting in Practice and Theory	4
ART-SHU 222	Site and Situation: Public Art	4
ART-SHU 259		
ART-SHU 274	Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form	4
ART-SHU 306	Moving Images I	4
Advanced Visual Arts Praxis Courses		
ART-SHU 320	Experiences in Time: The Art of Time-based Media	4
ART-SHU 375	The Graphic Novel	4
ART-SHU 1911	Projects in Studio Art	2

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
Core Class		4
Core Class		4
Chinese or EAP		4
		Credits
		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
Humanities Foundations Course		4
Core Class		4

Chinese or EAP	4
Credits	16
3rd Semester/Term	
WRIT-SHU 201 Perspectives on the Humanities	4
Humanities Foundations Course	4
Humanities Introductory Course	4
Chinese or Core Course	4
Credits	16
4th Semester/Term	
Humanities Introductory Course	4
Core Class	4
Core Class	4
Chinese or Core Course	4
Credits	16
5th Semester/Term	
Humanities Advanced Interdisciplinary Course	4
Humanities Advanced Course	4
Core Course or General Elective	4
General Elective	4
Credits	16
6th Semester/Term	
Humanities Advanced Course	4
Humanities Advanced Course	4
General Elective	4
General Elective	4
Credits	16
7th Semester/Term	
Humanities Advanced Course	4
Humanities Advanced Course	4
HUMN-SHU 400A Humanities Capstone Seminar I	2
General Elective	4
General Elective	2
Credits	16
8th Semester/Term	
HUMN-SHU 401 Humanities Capstone Seminar	4
General Elective	4
General Elective	4
General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of this program, students should be able to:

- Produce powerful and plausible interpretations of sources.
- Independently develop arguments.
- Write papers that display sophisticated organization, clarity of expression, and strength of argument.
- Read, interpret and analyze sources from multiple disciplinary perspectives, including for example literary, historical, philosophical and anthropological perspectives.
- Evaluate the reach and limits of different types of evidence, for example quantitative evidence, photographic evidence, textual evidence, narrative evidence and artifactual evidence.
- Formulate a research question, identify primary and secondary sources relevant to the question, construct a research strategy to address the question in light of the sources, and successfully carry out the research.
- Independently conceive and execute an academic project, for example a research paper, at the scale of work expected in typical humanities graduate programs in a chosen discipline.

Policies

- Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Humanities Policies

- If you take more than two Foundations courses, the first two count towards the Foundations requirement, and the remaining count towards the general Introductory course requirement.
- At least 12 credits (usually three 4-credit courses) of your Advanced Courses must fit together thematically in a way that can serve as a basis for a capstone project. The aim of this requirement is to allow students to select a set of courses that builds towards a capstone project. Students should consult with their academic advisor and with Humanities professors to discuss how best to fulfill this requirement.
- If you take more than one Advanced Interdisciplinary course, the first counts toward the Advanced Interdisciplinary requirement, and the remainder count toward the general Advanced course requirement.
- Qualifying students may elect to complete a Creative Capstone in the Visual Arts. The Creative Capstone in Visual Arts is comprised of an artistic project, the research-based Humanities capstone thesis, and an artist statement. These three elements should form a unified project, with the expectation that the research-based capstone thesis is still the primary focus. In order to qualify for the Creative Capstone in the Visual Arts, the students must take ART-SHU 101 What is Art?, three Visual Arts Praxis courses at any level, and ART-SHU 1911 Projects in Studio Art.
- Students may also complete this requirement by enrolling in an Advanced 4-credit course, with the approval of the course instructor. Students selecting this option should inform their academic advisor and the Humanities Area Leader of their decision before the end of the Fall term.

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Global Perspectives on Society.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Humanities (Minor)

Program Description

The humanities integrate different disciplinary perspectives on what it means to be human. Courses give students the opportunity to explore a range of topics, time periods, and world regions by taking classes in art history and theory, history, human geography, literature, philosophy, and related fields including environmental studies, gender and sexuality studies, science and technology studies, and urban humanities. Humanities minors learn myriad scholarly methods and approaches, including historiography, literary analysis, and philosophical argumentation. The Humanities minor trains students in creative analysis, critical interpretative skills, thoughtful argumentation, and clarity in written and verbal communication.

Program Requirements

Course	Title	Credits
Four classes from the required and elective list of Humanities major courses.		16
Total Credits		16

Humanities Major Courses

Code	Title	Credits
ART-SHU 101	What is Art?	4
ART-SHU 180	East Asian Art in the World	4
ART-SHU 222	Site and Situation: Public Art	4
CRWR-SHU 159	Introduction to Creative Writing	4
CRWR-SHU 201T	Topics in Creative Writing: Creative Writing, Creative Translation: The Art of Literary Translation	4
CRWR-SHU 207	Introduction to Screenwriting	4
CRWR-SHU 221	Intermediate Poetry Workshop	4
CRWR-SHU 248	Writing the Novella	4
GCHN-SHU 102	History of Modern China Since 1840	4
GCHN-SHU 110	The Concept of China	4
GCHN-SHU 111	Shanghai Stories	4
GCHN-SHU 123	Contemporary Chinese Political Thought	4
GCHN-SHU 145	Food in Chinese History	4
GCHN-SHU 156	History of Chinese Art	4
GCHN-SHU 164	The History of the Silk Road	4
GCHN-SHU 165	China and the Islamic World, c.600AD-Present	4
GCHN-SHU 205	Hong Kong Cinema	4
GCHN-SHU 210	China Encounters the World	4
GCHN-SHU 211	Chinese Architecture	4
GCHN-SHU 233	Foreign Societies in Classical Chinese Writing	4
GCHN-SHU 247	Religion and Society in China: Ghosts, Gods, Buddhas and Ancestors.	4
GCHN-SHU 250	Geographies of China	4
GCHN-SHU 255	Eat, Pray, Ponder: Chinese Intellectual Culture through the Ages	4
GCHN-SHU 263	Voices from the Margin: Modern Chinese and Sinophone Writers	4
GCHN-SHU 264	Chinese Migrant and Diasporic Networks	4
GCHN-SHU 283	Reading and Viewing Modern China	4
GCHN-SHU 311	Global Connections: Shanghai	4

HIST-SHU 101	What is History	4
HIST-SHU 102	What is Art History?	4
HIST-SHU 103	Oral History: Method and Practice	4
HIST-SHU 110	U.S. History through Literature and Film	4
HIST-SHU 130	Arab-Islamic Influence on the West	4
HIST-SHU 150	Asian American History	4
HIST-SHU 155	Chinese American History: From the California Gold Rush to the Cold War	4
HIST-SHU 156	Europe Since 1945	4
HIST-SHU 157	A Global History of Mathematics	4
HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	4
HIST-SHU 188	Empires in World History	4
HIST-SHU 200	Topics in History.	4
HIST-SHU 205	History of Modern Medicine	4
HIST-SHU 208	Europe's Long Twentieth Century	4
HIST-SHU 209	Witches, Magic and the Witch Hunts in the Atlantic World, 1400-1700	4
HIST-SHU 220	Chinese American History: From the California Gold Rush to the Cold War	4
HIST-SHU 225	The Global Space Age	4
HIST-SHU 230	Life beyond Earth: Extraterrestrials since 1897	4
HIST-SHU 239	New York: History of the City and its People	4
HIST-SHU 265	The Emergence of the Modern Middle East and North Africa	4
HIST-SHU 280	The Two Koreas	4
HIST-SHU 301	Material Culture: History You Can Touch	4
HIST-SHU 303	Histories and Politics of Noise	4
HIST-SHU 305	When Science Goes Wrong	4
HIST-SHU 310	The Birth of Psychology	4
HIST-SHU 330	Popular Culture and the Scientific Revolution	4
HUMN-SHU 101	What is Literature?	4
HUMN-SHU 110	What is Science and Technology Studies?	4
HUMN-SHU 112	What is Human Geography?	4
HUMN-SHU 125	Paris, I love you / Paris, je t'aime: Literature, Culture and Society in la Belle Epoque	4
HUMN-SHU 135	The Global Experimental: Modernism and Beyond	4
HUMN-SHU 140	Magic and Realism in Latin American Fiction	4
HUMN-SHU 160	Translation in Theory and Practice	4
HUMN-SHU 168	Penning the Self(ie): Orality, Literacy, Digitality, and the Literary Subject	4
HUMN-SHU 180	Korean Culture and Society through K-pop	4
HUMN-SHU 181	Gender and Sexuality in Modern Visual Culture	4
HUMN-SHU 182	Contemporary East Asian Media Culture	4
HUMN-SHU 183	Global Environmental History	4
HUMN-SHU 184	Urban Geography	4
HUMN-SHU 190	Transnational Feminist Aesthetics and Politics	4
HUMN-SHU 205	French Cinema: The Birth of the Seventh Art	4
HUMN-SHU 212	Paper City: Examining Urban Bureaucracies Ethnographically	4
HUMN-SHU 214	European Thought and Culture: 1750-1870	4
HUMN-SHU 215	Excavating Deep Time: Literature and the Human Condition	4
HUMN-SHU 229	Masters of Asian Cinema	4

HUMN-SHU 231	Making Sense of Contemporary Art	4
HUMN-SHU 235	In Conversation: Black and Chinese Artists	4
HUMN-SHU 240	Gender, Sexuality, and Culture	4
HUMN-SHU 250	Love and Hate in the Time of Dragons	4
HUMN-SHU 280	Writing Empire	4
HUMN-SHU 284	Modern European Philosophy	4
HUMN-SHU 308	Legends & their Medieval Past: King Arthur, Robin Hood, Frodo Baggins, Daenerys Targaryen, and more	4
INTM-SHU 194	Global Media Cultures	4
NEUR-SHU 132	Meaning	4
PHIL-SHU 70	Logic	4
PHIL-SHU 80	Philosophy of Mind	4
PHIL-SHU 90	Philosophy of Science	4
PHIL-SHU 91	Philosophy of Biology	4
PHIL-SHU 101	What is Philosophy?	4
PHIL-SHU 105	Introduction to Chinese Philosophy	4
PHIL-SHU 106	Ancient Greek and Roman Philosophy	4
PHIL-SHU 107	Great Works in Philosophy	4
PHIL-SHU 110	Traditional Chinese Political and Legal Philosophy	4
PHIL-SHU 115	Ethics and Society	4
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
PHIL-SHU 204	Metaphysics and Epistemology: Perception	4
PHIL-SHU 205	Metaphysics	4
PHIL-SHU 206	Epistemology and Perception	4
PHIL-SHU 220	Philosophy of Law	4
PHIL-SHU 230	Philosophy of Physics	4
PHIL-SHU 255	Habermas and Chinese Modernity	4
PHIL-SHU 300	Kant	4
SOCs-SHU 130	Introduction to Political Theory	4
SOCs-SHU 228	Merchants, Chiefs, and Spirits	4
SOCs-SHU 229	Capitalism, Socialism, Communism: Theory and Practice	4
SOCs-SHU 245	Ethnographic Thinking	4
SOCs-SHU 252	Ethics and Global Governance	4
SOCs-SHU 254	Ethnographies of Change in China	4
SOCs-SHU 272	The U.S. Constitution: Is It relevant to China?	4

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Interactive Media + Business (BS)

CIP: 52.0101

Program Description

The Interactive Media + Business (IMB) major is where innovation + business meet through emerging media technology. It teaches how innovative ideas combine with technology, creativity and business principles to yield viable products, services and experiences. Students of Interactive Media + Business (IMB), will be challenged to imagine and implement interactive products and services that fearlessly investigate the recently possible in media, technology, and communication. IMB majors are also expected to think holistically about the impact of their work in society as well as the business value, whether it involves software or hardware, virtual or physical, product or experiment. The IMB major welcomes interest in entrepreneurship in all forms — large organizations or startups, for-profit or not-for-profit — that bring about disruptive changes and create positive social impact. Students of IMB will acquire a design-and-build mindset and gain experience by implementing creative solutions to real business problems in order to graduate well prepared for stimulating careers or future learning journeys in diverse organizations across the globe.

IMB majors and minors will take a unique blend of interactive media and business foundation courses, including Innovation Lab, which introduces modern rapid software prototyping, theories of innovation, early-stage business concepts, creative coding and user experience design. For their second emerging media foundation, IMB students will choose between one of 5 courses: Interaction Lab, which covers interaction design, electronics, computation, and digital fabrication, Communications Lab, which covers digital media production methods, including imaging, audio, video, and Web development, or What is New Media? A course designed to give students a strong theoretical and historical background in new media arts, Creative Coding Lab, which introduces students to the fundamentals of computation, software design, and web technologies and Introduction to Media Industries and Institutions. Business foundations include Economics of Global Business and Principles of Financial Accounting.

Students also choose from a range of flexible core and elective categories across the disciplines of business, emerging media, art and design, the humanities, social and physical sciences, as well as computation and data. Majors finish with a year-long Capstone course by synthesizing their learning to date and applying their learning to prototype an artifact (an idea, product, or service) that creates value in the real world.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application

requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

¹ Sophomore standing required

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
Mathematics Course		4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World Course		4
Science, Technology and Society Course		4
Major Requirements		
<i>IMB Foundation Courses</i>		
IMBX-SHU 110	Innovation Lab	4
Select one of the following:		4
IMBX-SHU 106 Introduction to Media Industries and Institutions		
INTM-SHU 101 Interaction Lab		
INTM-SHU 103 Creative Coding Lab		
INTM-SHU 120 Communications Lab		
INTM-SHU 205 What is New Media?		
<i>Required Business Foundation Courses</i>		
ECON-SHU 251	Economics of Global Business	4
BUSF-SHU 250	Principles of Financial Accounting	4
<i>Business Flexible Core Courses</i>		
Select two of the following: ¹		8
BUSF-SHU 142 Information Technology in Business & Society		
BUSF-SHU 202 Foundations of Finance		
BUSF-SHU 210 Business Analytics		
BUSF-SHU 351 Operations Management		
MGMT-SHU 301 Management and Organizations		
MKTG-SHU 1 Introduction to Marketing		
<i>Business Elective Courses</i>		
Select 12 credits from the Business Elective Courses listed below		12
<i>IMB Elective Courses</i>		
Select 20 credits from the Interactive Media Arts/Business Elective Courses listed below		20
<i>Capstone Studio</i>		
IMBX-SHU 400	IMB Capstone 1	4
IMBX-SHU 401	IMB Capstone 2	4
Other Elective Credits		12-20
Total Credits		128

Business Elective Courses

Code	Title	Credits
BPEP-SHU 9042	The Political Economy of East Asia	4
BUSF-SHU 48	Derivatives	4
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 188	Chinese Business and Finance – A Bilingual Introduction	4
BUSF-SHU 200B	Topics in Business	4
BUSF-SHU 200D	Business Consulting in China	4
BUSF-SHU 200F	Fixed Income Derivatives	2
BUSF-SHU 200G	Experiential Mediation	4
BUSF-SHU 202	Foundations of Finance	4
BUSF-SHU 206	Investing And Financing In And With China	4
BUSF-SHU 215	Alternative Investments I: Principles & Strategies	4
BUSF-SHU 220F	Debt Instruments	2
BUSF-SHU 221	Professional Responsibility & Leadership	2
BUSF-SHU 222	Risk Management in Financial Institutions	4
BUSF-SHU 225	Negotiation and Consensus Building	4
BUSF-SHU 225.1	Negotiation and Consensus Building: Theoretic Foundations	2
BUSF-SHU 225.2	Negotiation and Consensus Building: Cases and Practices	2
BUSF-SHU 228	Sustainable Finance: Climate-Conscious and Long-Term Investing	3
BUSF-SHU 229	Behavioral Finance	4
BUSF-SHU 232	Entrepreneurship Explored	4
BUSF-SHU 244	Portfolio Management	4
BUSF-SHU 250	Principles of Financial Accounting	4
BUSF-SHU 252	Global Business Immersion: Shanghai	3
BUSF-SHU 270	Financial Reporting & Disclosure	4
BUSF-SHU 271	AI for Business – Reinforcement Learning	2
BUSF-SHU 272	Blockchain and its Business Applications	4
BUSF-SHU 273	Big Data and Data Mining: Business Applications	4
BUSF-SHU 274	Distributed Ledger Technology: Ethereum, DeFi, and Beyond	4
BUSF-SHU 275	Exploring the Future of Innovations: Emerging Technologies, Business Strategies and Development	4
BUSF-SHU 276	AI for Business – Machine Learning	2
BUSF-SHU 286	Chinese Financial Markets	4
BUSF-SHU 288	Doing Business with China	4
BUSF-SHU 289	NYU Big Ideas Series: The Role of China in the Future of World Business	4
BUSF-SHU 303	Corporate Finance	4
BUSF-SHU 304	Futures and Options	4
BUSF-SHU 305	Debt Instruments and Markets	4
BUSF-SHU 308	Hedge Fund Strategies	4
BUSF-SHU 309	Financial Statement Analysis	4
BUSF-SHU 310	Data Science for Social and Information Networks	4
BUSF-SHU 311	New Venture Strategy	4

BUSF-SHU 312	International Business and Trade	4	PCIX-SHU 301	Entrepreneurship Experienced	4
BUSF-SHU 318	Investing in Emerging and Frontier Markets: Opportunities and Challenges	4	SOCs-SHU 241	Cultures of Business and Work	4
BUSF-SHU 321	Equity Valuation	4	SOCs-SHU 391	International Investment in Developing Countries: China and Africa	4
BUSF-SHU 334	Advanced Futures and Options	4	SOIM-SHU 65	Organizational Communication and Its Social Context	4
BUSF-SHU 350	Managerial Accounting	4	IMB Elective Courses		
BUSF-SHU 351	Operations Management	4	Code	Title	Credits
BUSF-SHU 353	International Financial Management	4	ART-SHU 222	Site and Situation: Public Art	4
BUSF-SHU 361	Entrepreneurial Finance	4	ART-SHU 250	Visual Culture and Social Art Practice: Collaborations and Community Interactions	4
BUSF-SHU 366	Applications in Entrepreneurial Finance: Fintech	4	ART-SHU 255	Printmaking in an Expanded Field	4
BUSF-SHU 369	Quantitative Strategies	4	ART-SHU 274	Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form	4
BUSF-SHU 390	Corporate Transaction Financial and Valuation Modeling	4	ART-SHU 306	Moving Images I	4
BUSF-SHU 420	Business Topics Course: Financial Market Volatility Modeling	4	ART-SHU 307	Moving Images II	4
BUSF-SHU 421	Financial Distress, Restructuring, and Turnaround	4	ART-SHU 320	Experiences in Time: The Art of Time-based Media	4
BUSF-SHU 441	Private Equity & Venture Capital in Asia and Emerging Markets	4	ART-SHU 375	The Graphic Novel	4
BUSF-SHU 442	International Project and Structured Investing and Financing	4	BUSF-SHU 232	Entrepreneurship Explored	4
BUSF-SHU 997	Business Independent Study	1-4	CRWR-SHU 175	Storytelling Strategies	4
ECON-SHU 3	Microeconomics	4	CRWR-SHU 245	Intermediate Fiction Workshop: Speculative Fictions	4
ECON-SHU 216	Introduction to Game Theory	4	GCHN-SHU 236	Immersive Narrative of Chinese Monuments	4
ECON-SHU 315	Competitive Analysis	4	HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	4
ECON-SHU 356	Antitrust and Competition Policy in the Digital Era	4	HUMN-SHU 182	Contemporary East Asian Media Culture	4
ECON-SHU 453	Economics Honors Seminar	2	HUMN-SHU 231	Making Sense of Contemporary Art	4
IMBX-SHU 103	Understanding Financial Technology	4	IMBX-SHU 102	Global Experience Design	4
IMBX-SHU 210	The Strategist	2	IMBX-SHU 103	Understanding Financial Technology	4
IMBX-SHU 362	Entrepreneurship and Globalization	4	IMBX-SHU 105	Introduction to the Technology Innovation Process	4
MATH-SHU 235	Probability and Statistics	4	IMBX-SHU 106	Introduction to Media Industries and Institutions	4
MATH-SHU 250	Mathematics of Finance	4	IMBX-SHU 201	The Minimum Viable Product	4
MGMT-SHU 4	Global Strategy	4	IMBX-SHU 210	The Strategist	2
MGMT-SHU 18	Strategic Analysis	4	IMBX-SHU 212	Generative AI: A Business Revolution	4
MGMT-SHU 401	Research Methods in Management and Organizations	4	IMBX-SHU 220	Playing to Win: Game Design, Development, and Business	4
MGMT-SHU 425	Managing Change	4	IMBX-SHU 221	Content Creation and Management on Social Media	4
MKTG-SHU 1	Introduction to Marketing	4	IMBX-SHU 222	Reinventing the Brand	4
MKTG-SHU 2	Consumer Behavior	4	IMBX-SHU 230	User Research Fundamentals	4
MKTG-SHU 3	Advertising Management	4	IMBX-SHU 250	Prototyping for People	4
MKTG-SHU 9	Research for Customer Insights	4	IMBX-SHU 254	Introduction to Mindful Product Management	4
MKTG-SHU 53	Pricing	4	IMBX-SHU 261	Global Media and International Law	4
MKTG-SHU 57	Digital Marketing	4	IMBX-SHU 262	Global Beauty Industry	4
MKTG-SHU 64	Global Marketing Strategy	4	IMBX-SHU 263	Fashion Industry in East Asia	4
MKTG-SHU 110	Practicum on Innovation and Branding	4	IMBX-SHU 360	Global Media and Finance	4
MKTG-SHU 154	Digital Marketing Analytics	4	IMBX-SHU 362	Entrepreneurship and Globalization	4
MKTG-SHU 200	Strategic Marketing in China: Live Projects and Case Studies	4	IMBX-SHU 501	Realtime	2
MKTG-SHU 228	Strategic Marketing in China: Live Projects and Case Studies	4	IMBX-SHU 9501	Going Live: Real-Time Streaming and Interactive Media	2
MKTG-SHU 229	Luxury and Luxury Marketing	4	INTM-SHU 124	Emerging Technologies & Computational Arts	4
MKTG-SHU 310	Retail Technology and Channel Management: The Chinese Market	4	INTM-SHU 125	Digital Arts and New Media	4
PCIX-SHU 101	Creativity Considered	4	INTM-SHU 126	Introduction to 3D	2
PCIX-SHU 201	Design Thinking	4	INTM-SHU 129	Industrial Design in Action	4

INTM-SHU 129T	Digital Design and Fabrication	4	INTM-SHU 255	Topics in Business of Emerging Media	2
INTM-SHU 130	Working with Electronics	4	INTM-SHU 257	Immersive Arts	4
INTM-SHU 132	Kinetic Light	4	INTM-SHU 258	Machine Learning for Artists and Designers	4
INTM-SHU 134	Movement Practices and Computing	4	INTM-SHU 259	Immersive Design for Video Games	2
INTM-SHU 138	Responsive Environments: Designing Interactive, Sentient, and Intelligent Spaces	4	INTM-SHU 261	Data: Code it, Make it	4
INTM-SHU 138T	Extended Perception	4	INTM-SHU 262	Urban Farming: Technology and Community	4
INTM-SHU 140T-A	Open Project Salon	2	INTM-SHU 265	Topics in Digital Humanities:	4
INTM-SHU 140T-B	Open Project Salon	2	INTM-SHU 266	Digital Heritage	4
INTM-SHU 141	Art and the Anthropocene: Material-Based Activism	4	INTM-SHU 267	The Cultivated City	4
INTM-SHU 142	Writing with AI: Philosophy and Practice	2	INTM-SHU 268	Acoustic Ethnography of the Yangtze Delta	4
INTM-SHU 150	Storytelling in Mixed Reality	4	INTM-SHU 271	Remade in China	4
INTM-SHU 151	Learning with Turtles	4	INTM-SHU 280C	VR / AR Fundamentals	4
INTM-SHU 152T	Woodworking for Art and Design	4	INTM-SHU 280D	Realtime Audiovisual Performance Systems	4
INTM-SHU 166	The Media World of Animation: History and Theory	4	INTM-SHU 283	Locative Media	4
INTM-SHU 185	Interactive Fashion	4	INTM-SHU 284	Digital Sculpting for Facial Animation	4
INTM-SHU 187T	E-textiles	2	INTM-SHU 286	Theories and Practices of Transmedia Storytelling	4
INTM-SHU 194	Global Media Cultures	4	INTM-SHU 287	NIME: New Interfaces for Musical Expression	4
INTM-SHU 195	After Us: Post-human Media	4	INTM-SHU 289	Exploring & Creating Sonic Environments	4
INTM-SHU 200	Topics in IMA:	4	INTM-SHU 294	History of Human Computer Interaction	4
INTM-SHU 201	Expanded Web	4	INTM-SHU 296	The Planetary: Computation in the Anthropocene	4
INTM-SHU 202	Media Architecture	4	INTM-SHU 297T	Synthetic Senses and Sensation	2
INTM-SHU 203T	Intro to Movement Practices	2	INTM-SHU 301	Advanced Lab: Open Project	2
INTM-SHU 204	Critical Data and Visualization	4	INTM-SHU 303	Advanced Lab: Shaders	2
INTM-SHU 205T	The Artificial: Programming and Planetary	4	INTM-SHU 304	Advanced Lab: Web Page to Web Space	4
INTM-SHU 206T	Topic: Media Past and Future	4	INTM-SHU 305	Advanced Seminar: Hello Metaverse	2
INTM-SHU 207T	Topic: AI and Culture: Paths of Definition, Paths of Development	2	INTM-SHU 306	Advanced Lab: Synthetic Media	4
INTM-SHU 208D	Realtime Audiovisual Performance Systems	4	INTM-SHU 307	Advanced Lab: ABC Browser Circus on Tour (Mobile)	4
INTM-SHU 214	User Experience Design	4	INTM-SHU 308	Advanced Lab: Mixed Reality and Cultural Heritage	4
INTM-SHU 215	Machine Learning for New Interfaces	4	INTM-SHU 350	Advanced Seminar: Media's Material and Environmental Relations	4
INTM-SHU 217	Make Believe	4	INTM-SHU 351	Advanced Seminar: Machine Decision is Not Final	2
INTM-SHU 218	Design and Fabrication of Everyday Things	4	INTM-SHU 352	Advanced Media Theory	4
INTM-SHU 222	Introduction to Robotics	4	PCIX-SHU 101	Creativity Considered	4
INTM-SHU 223	Programming Design Systems	4	PCIX-SHU 102	Experience Studio	2
INTM-SHU 224	Unconventional Design+Interactions	4	PCIX-SHU 103	Life Design	4
INTM-SHU 226	Artificial Intelligence Arts	4	PCIX-SHU 201	Design Thinking	4
INTM-SHU 227	ABC Browser Circus	4	PCIX-SHU 202	Communicating for Influence	4
INTM-SHU 228	Digital + Sculpture	4	PCIX-SHU 241	Creative Learning Design	4
INTM-SHU 234	Rapid Prototyping	4	PCIX-SHU 301	Entrepreneurship Experienced	4
INTM-SHU 235	Topics in Art & Design - 2pt	2	PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
INTM-SHU 238	Toy Design and Prototyping	4	PSYC-SHU 344	Psychology of Human-Machine Communication and Relationships	4
INTM-SHU 239	Digital Fabrication	2	SOCX-SHU 353	Urban Design Studio: Pocket Space in Shanghai	4
INTM-SHU 241	VFX in the Age of Virtual Production	4	WRIT-SHU 240	Storytelling with Data Visualization	4
INTM-SHU 242	Exhibition: Next	4	WRIT-SHU 245	Digital Storytelling: Lessons of the Out of Eden Project	4
INTM-SHU 243	Introduction to Animation	4			
INTM-SHU 244	Bio-Inspired Robot Systems	4			
INTM-SHU 247	Creative Game Design and Development	4			
INTM-SHU 253	Creating Assistive Technology	4			
INTM-SHU 254	Nature of Code	4			

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
Core Class		4

Core Class		4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
IMBX-SHU 110	Innovation Lab	4
Core Class		4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
IMB Foundation Course		4
Interactive Media Elective		4
Chinese or Core Course		4
Credits		16
4th Semester/Term		
ECON-SHU 251	Economics of Global Business	4
BUSF-SHU 250	Principles of Financial Accounting	4
Interactive Media Elective		4
Chinese or Core Course		4
Credits		16
5th Semester/Term		
Interactive Media Elective		4
Core Class		4
Business Flexible Core		4
Core Course or General Elective		4
Credits		16
6th Semester/Term		
Interactive Media Elective		4
Business Flexible Core		4
Business Elective		4
Business Elective		4
Credits		16
7th Semester/Term		
IMBX-SHU 400	IMB Capstone 1	4
Core or General Elective		4
Business Elective		4
General Elective		4
Credits		16
8th Semester/Term		
IMBX-SHU 401	IMB Capstone 2	4
Interactive Media Elective		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Learning Outcomes

Upon successful completion of this program, students will:

1. Proficiency in the development of interactive media projects from concept to working prototype. They apply skills in interaction design, computational thinking, media production, and/or fabrication.
2. Conceptual thinking in the ideation of their work and the pursuit of related research.
3. Critical thinking skills that facilitate analysis and placement of their work within various research contexts (i.e., cultural, historical, aesthetic, business, and/or technological.) They use these skills for thesis development, and for drawing research conclusions.

4. Visual, verbal, and written communication skills relevant to the development, documentation, and presentation of their work.
5. Organization, collaboration, management, and group conflict resolution skills that help them execute interactive media projects within individual and group environments.
6. Conceptual and applied knowledge of business fundamentals (i.e., management, marketing, and/or finance) related to interactive media in general, and to their projects in particular.

Policies

Program Policies

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Innovation Lab.

Double Major Restrictions

Interactive Media + Business students are not able to double major in any of the following:

- Business and Finance (p. 253)
- Business and Marketing (p. 256)
- Interactive Media Arts (p. 294)

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Interactive Media Arts (BS)

CIP: 11.1004

Program Description

Interactive Media Arts (IMA) is an academic community of artists, thinkers, and makers dedicated to cultivating cutting-edge theory and practice within the field of media arts. We foster interdisciplinary research and encourage critical and artistic exploration. IMA is committed to supporting a diverse and inclusive environment that nurtures creativity, experimentation, and collaboration. Through rigorous intellectual inquiry, dynamic creative expression, and community engagement, we train future generations of artists and scholars who will reshape the ever-evolving landscape of emerging media.

All IMA majors take a required foundation course, What is New Media?, a course designed to give students a strong theoretical and historical background in new media arts. They may then choose between 3 other foundation courses: Interaction Lab, Communications Lab, and Creative Coding Lab. Interaction Lab introduces students to the fields

of interaction design, physical computing, and digital fabrication and provides students with foundational skills in electronics prototyping and an introduction to basic computer programming. Communications Lab introduces students to the concepts and tools used to produce multimedia content for print, photography, audio, and video. Creative Coding Lab introduces students to the fundamentals of computation, software design, and web technologies.

Students then choose from a range of electives across the disciplines of art & design, humanities, science, and computation, with great freedom to make selections based on their personal interest and future career goals. Starting from their sophomore year, students are introduced to advanced labs and seminars where they can sharpen their technical skills, learn about professional environments, and develop richer and more complex conceptual frameworks. Every student will receive guidance in their choices and - in their junior and senior years - be encouraged to specialize in a particular area of concentration. All majors finish with a two semester Capstone Studio course based on a topic of their own choosing. The IMA capstone synthesizes theoretical research and practice to produce an emerging media project that is critically informed by a related research essay.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses ¹		8-16
<i>Mathematics</i>		
Mathematics Course		4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World		4
Science, Technology, and Society		4
Courses for the Interactive Media Arts Major		
<i>Foundations</i>		
INTM-SHU 205	What is New Media?	4
Select two of the following:		8
INTM-SHU 101 Interaction Lab		
INTM-SHU 103 Creative Coding Lab		
INTM-SHU 120 Communications Lab		
<i>Interactive Media Arts Electives</i>		
Select 20 credits of electives from list below		20

<i>Interactive Media Arts Advanced Electives</i>		
Select eight credits of advance electives from list below		8
<i>Capstone Courses</i>		
INTM-SHU 400	Capstone Studio I	4
INTM-SHU 401	Capstone Studio II	4
Other Elective Credits		28-36
Total Credits		128

Interactive Media Arts Electives

Code	Title	Credits
ART-SHU 222	Site and Situation: Public Art	4
ART-SHU 250	Visual Culture and Social Art Practice: Collaborations and Community Interactions	4
ART-SHU 255	Printmaking in an Expanded Field	4
ART-SHU 274	Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form	4
ART-SHU 306	Moving Images I	4
ART-SHU 307	Moving Images II	4
ART-SHU 320	Experiences in Time: The Art of Time-based Media	4
ART-SHU 375	The Graphic Novel	4
BUSF-SHU 232	Entrepreneurship Explored	4
CRWR-SHU 175	Storytelling Strategies	4
GCHN-SHU 236	Immersive Narrative of Chinese Monuments	4
HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	4
HUMN-SHU 231	Making Sense of Contemporary Art	4
IMBX-SHU 110	Innovation Lab	4
IMBX-SHU 220	Playing to Win: Game Design, Development, and Business	4
IMBX-SHU 501	Realtime	2
IMBX-SHU 9501	Going Live: Real-Time Streaming and Interactive Media	2
INTM-SHU 124	Emerging Technologies & Computational Arts	4
INTM-SHU 125	Digital Arts and New Media	4
INTM-SHU 126	Introduction to 3D	2
INTM-SHU 129	Industrial Design in Action	4
INTM-SHU 129T	Digital Design and Fabrication	4
INTM-SHU 130	Working with Electronics	4
INTM-SHU 132	Kinetic Light	4
INTM-SHU 134	Movement Practices and Computing	4
INTM-SHU 138	Responsive Environments: Designing Interactive, Sentient, and Intelligent Spaces	4
INTM-SHU 138T	Extended Perception	4
INTM-SHU 140T-A	Open Project Salon	2
INTM-SHU 140T-B	Open Project Salon	2
INTM-SHU 141	Art and the Anthropocene: Material-Based Activism	4
INTM-SHU 142	Writing with AI: Philosophy and Practice	2
INTM-SHU 150	Storytelling in Mixed Reality	4
INTM-SHU 151	Learning with Turtles	4
INTM-SHU 152T	Woodworking for Art and Design	4
INTM-SHU 166	The Media World of Animation: History and Theory	4

INTM-SHU 185	Interactive Fashion	4
INTM-SHU 187T	E-textiles	2
INTM-SHU 194	Global Media Cultures	4
INTM-SHU 195	After Us: Post-human Media	4
INTM-SHU 200	Topics in IMA:	4
INTM-SHU 201	Expanded Web	4
INTM-SHU 202	Media Architecture	4
INTM-SHU 203T	Intro to Movement Practices	2
INTM-SHU 204	Critical Data and Visualization	4
INTM-SHU 205T	The Artificial: Programming and Planetaryity	4
INTM-SHU 206T	Topic: Media Past and Future	4
INTM-SHU 207T	Topic: AI and Culture: Paths of Definition, Paths of Development	2
INTM-SHU 208D	Realtime Audiovisual Performance Systems	4
INTM-SHU 214	User Experience Design	4
INTM-SHU 215	Machine Learning for New Interfaces	4
INTM-SHU 217	Make Believe	4
INTM-SHU 218	Design and Fabrication of Everyday Things	4
INTM-SHU 222	Introduction to Robotics	4
INTM-SHU 223	Programming Design Systems	4
INTM-SHU 224	Unconventional Design+Interactions	4
INTM-SHU 226	Artificial Intelligence Arts	4
INTM-SHU 227	ABC Browser Circus	4
INTM-SHU 228	Digital + Sculpture	4
INTM-SHU 234	Rapid Prototyping	4
INTM-SHU 235	Topics in Art & Design - 2pt	2
INTM-SHU 238	Toy Design and Prototyping	4
INTM-SHU 239	Digital Fabrication	2
INTM-SHU 241	VFX in the Age of Virtual Production	4
INTM-SHU 242	Exhibition: Next	4
INTM-SHU 243	Introduction to Animation	4
INTM-SHU 244	Bio-Inspired Robot Systems	4
INTM-SHU 247	Creative Game Design and Development	4
INTM-SHU 253	Creating Assistive Technology	4
INTM-SHU 254	Nature of Code	4
INTM-SHU 255	Topics in Business of Emerging Media	2
INTM-SHU 257	Immersive Arts	4
INTM-SHU 258	Machine Learning for Artists and Designers	4
INTM-SHU 259	Immersive Design for Video Games	2
INTM-SHU 261	Data: Code it, Make it	4
INTM-SHU 262	Urban Farming: Technology and Community	4
INTM-SHU 265	Topics in Digital Humanities:	4
INTM-SHU 266	Digital Heritage	4
INTM-SHU 267	The Cultivated City	4
INTM-SHU 268	Acoustic Ethnography of the Yangtze Delta	4
INTM-SHU 271	Remade in China	4
INTM-SHU 280C	VR / AR Fundamentals	4
INTM-SHU 280D	Realtime Audiovisual Performance Systems	4
INTM-SHU 283	Locative Media	4
INTM-SHU 284	Digital Sculpting for Facial Animation	4
INTM-SHU 286	Theories and Practices of Transmedia Storytelling	4
INTM-SHU 287	NIME: New Interfaces for Musical Expression	4
INTM-SHU 289	Exploring & Creating Sonic Environments	4
INTM-SHU 294	History of Human Computer Interaction	4
INTM-SHU 296	The Planetary: Computation in the Anthropocene	4
INTM-SHU 297T	Synthetic Senses and Sensation	2
INTM-SHU 301	Advanced Lab: Open Project	2
INTM-SHU 303	Advanced Lab: Shaders	2
INTM-SHU 304	Advanced Lab: Web Page to Web Space	4
INTM-SHU 305	Advanced Seminar: Hello Metaverse	2
INTM-SHU 306	Advanced Lab: Synthetic Media	4
INTM-SHU 350	Advanced Seminar: Media's Material and Environmental Relations	4
INTM-SHU 351	Advanced Seminar: Machine Decision is Not Final	2
PCIX-SHU 101	Creativity Considered	4
PCIX-SHU 201	Design Thinking	4
PCIX-SHU 202	Communicating for Influence	4
PCIX-SHU 241	Creative Learning Design	4
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
PSYC-SHU 344	Psychology of Human-Machine Communication and Relationships	4
SOCS-SHU 353	Urban Design Studio: Pocket Space in Shanghai	4
WRIT-SHU 240	Storytelling with Data Visualization	4
WRIT-SHU 245	Digital Storytelling: Lessons of the Out of Eden Project	4

Interactive Media Arts Advanced Electives

Code	Title	Credits
INTM-SHU 301	Advanced Lab: Open Project	2
INTM-SHU 303	Advanced Lab: Shaders	2
INTM-SHU 304	Advanced Lab: Web Page to Web Space	4
INTM-SHU 305	Advanced Seminar: Hello Metaverse	2
INTM-SHU 306	Advanced Lab: Synthetic Media	4
INTM-SHU 307	Advanced Lab: ABC Browser Circus on Tour (Mobile)	4
INTM-SHU 308	Advanced Lab: Mixed Reality and Cultural Heritage	4
INTM-SHU 350	Advanced Seminar: Media's Material and Environmental Relations	4
INTM-SHU 351	Advanced Seminar: Machine Decision is Not Final	2
INTM-SHU 352	Advanced Media Theory	4

¹ Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
INTM-SHU 101 or INTM-SHU 120 or INTM-SHU 103	Interaction Lab or Communications Lab or Creative Coding Lab	4

Core Class	4
Chinese or EAP	4
Credits	16
2nd Semester/Term	
WRIT-SHU 102	Writing as Inquiry 4
INTM-SHU 205	What is New Media? 4
or INTM-SHU 101	or Interaction Lab
or INTM-SHU 120	or Communications Lab
or INTM-SHU 103	or Creative Coding Lab
Core Class	4
Chinese or EAP	4
Credits	16
3rd Semester/Term	
WRIT-SHU 201	Perspectives on the Humanities 4
INTM-SHU 205	What is New Media? 4
or INTM-SHU 101	or Interaction Lab
or INTM-SHU 120	or Communications Lab
or INTM-SHU 103	or Creative Coding Lab
IMA Elective	4
Chinese or Core	4
Credits	16
4th Semester/Term	
IMA Elective	4
IMA Elective	4
Core Class	4
Chinese or Core	4
Credits	16
5th Semester/Term	
IMA Elective	4
IMA Elective	4
Core Class	4
General Elective	4
Credits	16
6th Semester/Term	
Advanced IMA Elective	4
General Elective	4
General Elective	4
General Elective	4
Credits	16
7th Semester/Term	
INTM-SHU 400	Capstone Studio I 4
Advanced IMA Elective	4
General Elective	4
General Elective	4
Credits	16
8th Semester/Term	
INTM-SHU 401	Capstone Studio II 4
General Elective	4
General Elective	4
General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of the program, students will be able to display:

1. Proficiency in the development of interactive media projects from concept to working prototype. They apply skills in interaction design, computational thinking, media production, and / or fabrication.
2. Conceptual thinking in the ideation of their work and the pursuit of related research.

3. Critical thinking skills that facilitate analysis and placement of their work within various research contexts (ie. cultural, historical, aesthetic, business, and / or technological.) They use these skills for thesis development, and for drawing research conclusions.
4. Visual, verbal, and written communication skills relevant to the development, documentation, and presentation of their work.
5. Organization, collaboration, management, and group conflict resolution skills that help them execute interactive media projects within individual and group environments.

Policies

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Interaction Lab OR Communications Lab OR Creative Coding Lab.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Interactive Media Arts (Minor)

Program Description

Interactive Media Arts (IMA) encourages students to explore the expressive possibilities of emerging media. Our students are challenged to combine practice and theory, connecting technical skills with historical knowledge, cultural understanding, and conceptual thinking. Areas of expertise include the development of software, the manipulation of digital media, the fabrication of material objects, the production of electronic devices, the construction of virtual and physical spaces, media theory, interactive installation, and the philosophy of technology. Our curriculum, community, and active learning environment facilitate student acquisition of both conceptual insights and practical skills, encouraging our students to explore their personal interests whilst engaging both critically and creatively with new technologies.

All IMA majors take a required foundation course, What is New Media? A course designed to give students a strong theoretical and historical background in new media arts. They may then choose between 3 other foundation courses: Interaction Lab, Communications Lab, and Creative Coding Lab. Interaction Lab introduces students to the fields of interaction design, physical computing, and digital fabrication and provides students with foundational skills in electronics prototyping and an introduction to basic computer programming. Communications Lab introduces students to concepts and tools in order to produce multimedia content for print, photography, audio, and video. Creative Coding Lab introduces students to the fundamentals of computation, software design, and web technologies.

Students then choose from a range of electives across the disciplines of art & design, humanities, science, and computation, with great freedom to make selections based on their personal interest and future career goals. Starting from their sophomore year, students are introduced to advanced labs and seminars where they can sharpen their technical skills, learn about professional environments and develop richer and more complex conceptual frameworks. Every student will receive guidance in their choices and - in their junior and senior years - be encouraged

to specialize in a particular area of concentration. All majors finish with a two semester Capstone Studio course based on a topic of their own choosing. The IMA capstone synthesizes theoretical research and practice to produce an emerging media project that is critically informed by a related research essay.

Program Requirements

Course	Title	Credits
Foundations		
Select two of the following:		8
INTM-SHU 101	Interaction Lab	
INTM-SHU 103	Creative Coding Lab	
INTM-SHU 120	Communications Lab	
INTM-SHU 205	What is New Media?	
Electives		
Select eight credits worth of electives or advanced electives from the Interactive Media Arts elective list		8
Total Credits		16

Interactive Media Arts Electives & Advanced Electives Courses

Code	Title	Credits
ART-SHU 222	Site and Situation: Public Art	4
ART-SHU 250	Visual Culture and Social Art Practice: Collaborations and Community Interactions	4
ART-SHU 255	Printmaking in an Expanded Field	4
ART-SHU 274	Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form	4
ART-SHU 306	Moving Images I	4
ART-SHU 307	Moving Images II	4
ART-SHU 320	Experiences in Time: The Art of Time-based Media	4
ART-SHU 375	The Graphic Novel	4
BUSF-SHU 232	Entrepreneurship Explored	4
CRWR-SHU 175	Storytelling Strategies	4
GCHN-SHU 236	Immersive Narrative of Chinese Monuments	4
HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	4
HUMN-SHU 231	Making Sense of Contemporary Art	4
IMBX-SHU 110	Innovation Lab	4
IMBX-SHU 220	Playing to Win: Game Design, Development, and Business	4
IMBX-SHU 501	Realtime	2
IMBX-SHU 9501	Going Live: Real-Time Streaming and Interactive Media	2
INTM-SHU 124	Emerging Technologies & Computational Arts	4
INTM-SHU 125	Digital Arts and New Media	4
INTM-SHU 126	Introduction to 3D	2
INTM-SHU 129	Industrial Design in Action	4
INTM-SHU 129T	Digital Design and Fabrication	4
INTM-SHU 130	Working with Electrons	4
INTM-SHU 132	Kinetic Light	4
INTM-SHU 134	Movement Practices and Computing	4
INTM-SHU 138	Responsive Environments: Designing Interactive, Sentient, and Intelligent Spaces	4
INTM-SHU 138T	Extended Perception	4

INTM-SHU 140T-A	Open Project Salon	2
INTM-SHU 140T-B	Open Project Salon	2
INTM-SHU 141	Art and the Anthropocene: Material-Based Activism	4
INTM-SHU 142	Writing with AI: Philosophy and Practice	2
INTM-SHU 150	Storytelling in Mixed Reality	4
INTM-SHU 151	Learning with Turtles	4
INTM-SHU 152T	Woodworking for Art and Design	4
INTM-SHU 166	The Media World of Animation: History and Theory	4
INTM-SHU 185	Interactive Fashion	4
INTM-SHU 187T	E-textiles	2
INTM-SHU 194	Global Media Cultures	4
INTM-SHU 195	After Us: Post-human Media	4
INTM-SHU 200	Topics in IMA:	4
INTM-SHU 201	Expanded Web	4
INTM-SHU 202	Media Architecture	4
INTM-SHU 203T	Intro to Movement Practices	2
INTM-SHU 204	Critical Data and Visualization	4
INTM-SHU 205T	The Artificial: Programming and Planetarity	4
INTM-SHU 206T	Topic: Media Past and Future	4
INTM-SHU 207T	Topic: AI and Culture: Paths of Definition, Paths of Development	2
INTM-SHU 208D	Realtime Audiovisual Performance Systems	4
INTM-SHU 214	User Experience Design	4
INTM-SHU 215	Machine Learning for New Interfaces	4
INTM-SHU 217	Make Believe	4
INTM-SHU 218	Design and Fabrication of Everyday Things	4
INTM-SHU 222	Introduction to Robotics	4
INTM-SHU 223	Programming Design Systems	4
INTM-SHU 224	Unconventional Design+Interactions	4
INTM-SHU 226	Artificial Intelligence Arts	4
INTM-SHU 227	ABC Browser Circus	4
INTM-SHU 228	Digital + Sculpture	4
INTM-SHU 234	Rapid Prototyping	4
INTM-SHU 235	Topics in Art & Design - 2pt	2
INTM-SHU 238	Toy Design and Prototyping	4
INTM-SHU 239	Digital Fabrication	2
INTM-SHU 241	VFX in the Age of Virtual Production	4
INTM-SHU 242	Exhibition: Next	4
INTM-SHU 243	Introduction to Animation	4
INTM-SHU 244	Bio-Inspired Robot Systems	4
INTM-SHU 247	Creative Game Design and Development	4
INTM-SHU 253	Creating Assistive Technology	4
INTM-SHU 254	Nature of Code	4
INTM-SHU 255	Topics in Business of Emerging Media	2
INTM-SHU 257	Immersive Arts	4
INTM-SHU 258	Machine Learning for Artists and Designers	4
INTM-SHU 259	Immersive Design for Video Games	2
INTM-SHU 261	Data: Code it, Make it	4
INTM-SHU 262	Urban Farming: Technology and Community	4
INTM-SHU 265	Topics in Digital Humanities:	4

INTM-SHU 266	Digital Heritage	4
INTM-SHU 267	The Cultivated City	4
INTM-SHU 268	Acoustic Ethnography of the Yangtze Delta	4
INTM-SHU 271	Remade in China	4
INTM-SHU 280C	VR / AR Fundamentals	4
INTM-SHU 280D	Realtime Audiovisual Performance Systems	4
INTM-SHU 283	Locative Media	4
INTM-SHU 284	Digital Sculpting for Facial Animation	4
INTM-SHU 286	Theories and Practices of Transmedia Storytelling	4
INTM-SHU 287	NIME: New Interfaces for Musical Expression	4
INTM-SHU 289	Exploring & Creating Sonic Environments	4
INTM-SHU 294	History of Human Computer Interaction	4
INTM-SHU 296	The Planetary: Computation in the Anthropocene	4
INTM-SHU 297T	Synthetic Senses and Sensation	2
INTM-SHU 301	Advanced Lab: Open Project	2
INTM-SHU 303	Advanced Lab: Shaders	2
INTM-SHU 304	Advanced Lab: Web Page to Web Space	4
INTM-SHU 305	Advanced Seminar: Hello Metaverse	2
INTM-SHU 306	Advanced Lab: Synthetic Media	4
INTM-SHU 307	Advanced Lab: ABC Browser Circus on Tour (Mobile)	4
INTM-SHU 308	Advanced Lab: Mixed Reality and Cultural Heritage	4
INTM-SHU 350	Advanced Seminar: Media's Material and Environmental Relations	4
INTM-SHU 351	Advanced Seminar: Machine Decision is Not Final	2
INTM-SHU 352	Advanced Media Theory	4
PCIX-SHU 101	Creativity Considered	4
PCIX-SHU 201	Design Thinking	4
PCIX-SHU 202	Communicating for Influence	4
PCIX-SHU 241	Creative Learning Design	4
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
PSYC-SHU 344	Psychology of Human-Machine Communication and Relationships	4
SOC-SHU 353	Urban Design Studio: Pocket Space in Shanghai	4
WRIT-SHU 240	Storytelling with Data Visualization	4
WRIT-SHU 245	Digital Storytelling: Lessons of the Out of Eden Project	4

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Interactive Media Business (Minor) Program Description

The Interactive Media + Business (IMB) minor is where innovation + business meet through emerging media technology. It teaches how innovative ideas combine with technology, creativity and business principles to yield viable products, services and experiences. IMB students are challenged to imagine and implement interactive products and services that fearlessly investigate the recently possible in media, technology, and communication. IMB minors are also expected to think holistically about the impact of their work in society as well as the business value, whether it involves software or hardware, virtual or physical, product or experiences. The IMB minor welcomes interest in entrepreneurship in all forms — large organizations or startups, for-profit or not-for-profit — that bring about disruptive changes and create positive social impact. Students of IMB acquire a design-and-build mindset and gain experience by implementing creative solutions to real business problems in order to graduate well prepared for stimulating careers or future learning journeys in diverse organizations across the globe.

IMB minors will take a unique blend of interactive media, technology, and business foundation courses, including Innovation Lab, which introduces modern rapid prototyping, theories of innovation, early-stage business concepts, and user experience design. For their second foundation course, IMB students will choose between one of 5 courses: Interaction Lab, which covers interaction design, electronics, computation, and digital fabrication; Communication Lab, which covers digital media production methods, including imaging, audio, video, and Web development; Creative Coding Lab, which introduces students to the fundamentals of computation, software design, and web technologies; Intro to Computer Programming, which provides a foundational introduction to computing and data science processes; and Introduction to Media Industries and Institutions, which provides an overview of the business of media and the uses of media in business contexts. Business foundation courses include Economics of Global Business, and Principles of Financial Accounting. Students also choose from a range of elective courses across the disciplines of business, emerging media, art and design, the humanities, social and physical sciences, as well as computation and data.

Program Requirements

Course	Title	Credits
BUSF-SHU 250	Principles of Financial Accounting	4
ECON-SHU 251	Economics of Global Business	4
<i>Interactive Media Foundation Courses</i>		
IMBX-SHU 110	Innovation Lab	4
Select one of the following:		4
IMBX-SHU 106	Introduction to Media Industries and Institutions	
INTM-SHU 101	Interaction Lab	
INTM-SHU 103	Creative Coding Lab	
INTM-SHU 120	Communications Lab	

INTM-SHU 205 What is New Media?	
<i>Business Elective Courses</i>	
Any Business core, elective, or an approved IMBX-SHU course	4
<i>Interactive Media Elective Courses</i>	
Any courses starting with the IMBX-SHU, INTM-SHU or PCIX-SHU subject code	4
Total Credits	24

Business Core & Elective Courses

Code	Title	Credits
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 142	Information Technology in Business & Society	4
BUSF-SHU 202	Foundations of Finance	4
BUSF-SHU 210	Business Analytics	4
BUSF-SHU 250	Principles of Financial Accounting	4
BUSF-SHU 351	Operations Management	4
ECON-SHU 3	Microeconomics	4
ECON-SHU 251	Economics of Global Business	4
MATH-SHU 235	Probability and Statistics	4
MGMT-SHU 301	Management and Organizations	4
MKTG-SHU 1	Introduction to Marketing	4

Interactive Media Arts Electives

Code	Title	Credits
ART-SHU 222	Site and Situation: Public Art	4
ART-SHU 250	Visual Culture and Social Art Practice: Collaborations and Community Interactions	4
ART-SHU 255	Printmaking in an Expanded Field	4
ART-SHU 274	Chinese Woodblock Printmaking: A Socially Engaged Graphic Art Form	4
ART-SHU 306	Moving Images I	4
ART-SHU 307	Moving Images II	4
ART-SHU 320	Experiences in Time: The Art of Time-based Media	4
ART-SHU 375	The Graphic Novel	4
BUSF-SHU 232	Entrepreneurship Explored	4
CRWR-SHU 175	Storytelling Strategies	4
GCHN-SHU 236	Immersive Narrative of Chinese Monuments	4
HIST-SHU 158	Is That Art? The Rise of the Avant-Garde	4
HUMN-SHU 231	Making Sense of Contemporary Art	4
IMBX-SHU 110	Innovation Lab	4
IMBX-SHU 220	Playing to Win: Game Design, Development, and Business	4
IMBX-SHU 501	Realtime	2
IMBX-SHU 9501	Going Live: Real-Time Streaming and Interactive Media	2
INTM-SHU 124	Emerging Technologies & Computational Arts	4
INTM-SHU 125	Digital Arts and New Media	4
INTM-SHU 126	Introduction to 3D	2
INTM-SHU 129	Industrial Design in Action	4
INTM-SHU 129T	Digital Design and Fabrication	4
INTM-SHU 130	Working with Electrons	4
INTM-SHU 132	Kinetic Light	4
INTM-SHU 134	Movement Practices and Computing	4

INTM-SHU 138	Responsive Environments: Designing Interactive, Sentient, and Intelligent Spaces	4
INTM-SHU 138T	Extended Perception	4
INTM-SHU 140T-A	Open Project Salon	2
INTM-SHU 140T-B	Open Project Salon	2
INTM-SHU 141	Art and the Anthropocene: Material-Based Activism	4
INTM-SHU 142	Writing with AI: Philosophy and Practice	2
INTM-SHU 150	Storytelling in Mixed Reality	4
INTM-SHU 151	Learning with Turtles	4
INTM-SHU 152T	Woodworking for Art and Design	4
INTM-SHU 166	The Media World of Animation: History and Theory	4
INTM-SHU 185	Interactive Fashion	4
INTM-SHU 187T	E-textiles	2
INTM-SHU 194	Global Media Cultures	4
INTM-SHU 195	After Us: Post-human Media	4
INTM-SHU 200	Topics in IMA:	4
INTM-SHU 201	Expanded Web	4
INTM-SHU 202	Media Architecture	4
INTM-SHU 203T	Intro to Movement Practices	2
INTM-SHU 204	Critical Data and Visualization	4
INTM-SHU 205T	The Artificial: Programming and Planetary	4
INTM-SHU 206T	Topic: Media Past and Future	4
INTM-SHU 207T	Topic: AI and Culture: Paths of Definition, Paths of Development	2
INTM-SHU 208D	Realtime Audiovisual Performance Systems	4
INTM-SHU 214	User Experience Design	4
INTM-SHU 215	Machine Learning for New Interfaces	4
INTM-SHU 217	Make Believe	4
INTM-SHU 218	Design and Fabrication of Everyday Things	4
INTM-SHU 222	Introduction to Robotics	4
INTM-SHU 223	Programming Design Systems	4
INTM-SHU 224	Unconventional Design+Interactions	4
INTM-SHU 226	Artificial Intelligence Arts	4
INTM-SHU 227	ABC Browser Circus	4
INTM-SHU 228	Digital + Sculpture	4
INTM-SHU 234	Rapid Prototyping	4
INTM-SHU 235	Topics in Art & Design - 2pt	2
INTM-SHU 238	Toy Design and Prototyping	4
INTM-SHU 239	Digital Fabrication	2
INTM-SHU 241	VFX in the Age of Virtual Production	4
INTM-SHU 242	Exhibition: Next	4
INTM-SHU 243	Introduction to Animation	4
INTM-SHU 244	Bio-Inspired Robot Systems	4
INTM-SHU 247	Creative Game Design and Development	4
INTM-SHU 253	Creating Assistive Technology	4
INTM-SHU 254	Nature of Code	4
INTM-SHU 255	Topics in Business of Emerging Media	2
INTM-SHU 257	Immersive Arts	4
INTM-SHU 258	Machine Learning for Artists and Designers	4
INTM-SHU 259	Immersive Design for Video Games	2

INTM-SHU 261	Data: Code it, Make it	4
INTM-SHU 262	Urban Farming: Technology and Community	4
INTM-SHU 265	Topics in Digital Humanities:	4
INTM-SHU 266	Digital Heritage	4
INTM-SHU 267	The Cultivated City	4
INTM-SHU 268	Acoustic Ethnography of the Yangtze Delta	4
INTM-SHU 271	Remade in China	4
INTM-SHU 280C	VR / AR Fundamentals	4
INTM-SHU 280D	Realtime Audiovisual Performance Systems	4
INTM-SHU 283	Locative Media	4
INTM-SHU 284	Digital Sculpting for Facial Animation	4
INTM-SHU 286	Theories and Practices of Transmedia Storytelling	4
INTM-SHU 287	NIME: New Interfaces for Musical Expression	4
INTM-SHU 289	Exploring & Creating Sonic Environments	4
INTM-SHU 294	History of Human Computer Interaction	4
INTM-SHU 296	The Planetary: Computation in the Anthropocene	4
INTM-SHU 297T	Synthetic Senses and Sensation	2
INTM-SHU 301	Advanced Lab: Open Project	2
INTM-SHU 303	Advanced Lab: Shaders	2
INTM-SHU 304	Advanced Lab: Web Page to Web Space	4
INTM-SHU 305	Advanced Seminar: Hello Metaverse	2
INTM-SHU 306	Advanced Lab: Synthetic Media	4
INTM-SHU 307	Advanced Lab: ABC Browser Circus on Tour (Mobile)	4
INTM-SHU 308	Advanced Lab: Mixed Reality and Cultural Heritage	4
INTM-SHU 350	Advanced Seminar: Media's Material and Environmental Relations	4
INTM-SHU 351	Advanced Seminar: Machine Decision is Not Final	2
INTM-SHU 352	Advanced Media Theory	4
PCIX-SHU 101	Creativity Considered	4
PCIX-SHU 201	Design Thinking	4
PCIX-SHU 202	Communicating for Influence	4
PCIX-SHU 241	Creative Learning Design	4
PHIL-SHU 130	Philosophy of Technology: Thinking Machines	4
PSYC-SHU 344	Psychology of Human-Machine Communication and Relationships	4
SOCs-SHU 353	Urban Design Studio: Pocket Space in Shanghai	4
WRIT-SHU 240	Storytelling with Data Visualization	4
WRIT-SHU 245	Digital Storytelling: Lessons of the Out of Eden Project	4

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Literature (Minor)

Program Description

Stories captivate us. Literature opens up a world of people, places, and experiences, demands our empathetic engagement and carries an infinite richness of human lives and emotions into the present. Classes bring together poetry, novels, essays, visual art, sound, film and the moving image to deepen a conventional understanding of how we read the world. A minor in Literature will enable you to build and refine your skills at textual and visual analysis, critical thinking and rhetorical strategies. Courses will empower you to interpret not only words but also images, numbers and even symbols in order to understand how literary works are produced and consumed, translated and received, comprehended and critiqued.

Program Requirements

Course	Title	Credits
Four classes from the required and elective list of Humanities major Literature courses.		16
Total Credits		16

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Mathematics (BS)

CIP: 27.0101

Program Description

Mathematics is the cornerstone of science. It provides both the language and framework for scientific thought, incorporating logical rigor and the power of abstraction. These attributes allow human ingenuity to extract deep scientific understanding from relatively simple experiments and physical observations. Mathematics plays a double role: On the one hand, it is a scientific field of its own that has yielded powerful and surprisingly beautiful theroretical constructions. On the other hand, mathematics provides the toolbox needed to solve problems and to model phenomena observed in nature or of interest in industry and technology. As such, mathematics allows humans to model the physical universe, to build efficient algorithms in computing, to develop powerful artificial intelligence methods, to analyze financial markets, to produce predictions for climate science, to map and study the human genome, to analyze the structure of the human brain, and a long list of etcetera's.

NYU Shanghai offers two tracks for a degree in Mathematics: Mathematics and Honors Mathematics. Both tracks develop the pure and applied aspects of the discipline. Math majors acquire a solid grasp of the main areas of mathematics while being invited, through a number of electives courses, to apply this knowledge in a wide range of areas, including computer science, physics, chemistry, engineering, data science, operations research, finance, etc. Graduates are qualified either to continue with further graduate education, or to start a career in industry, financial institutions, logistics, statistical consulting, or any activity requiring abstraction capability, mathematical modeling skills or relying on intensive computational or quantitative techniques.

The Honors Math track requires students to take the Honors version of the mandatory Math courses and to keep both a general and a Math Cumulative GPA higher or equal to 3.65. Honors courses have a broader scope and breadth than the regular courses, exposing students to general definitions and complete proofs. The Honors program is very demanding, as the combination of distinguished professors and a homogeneous selected audience results in fast moving courses that often become undistinguishable from graduate courses.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Curriculum		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		
Language Courses		8-16

Mathematics		
Mathematics Requirement Fulfilled by Major Coursework		
Algorithmic Thinking		
Algorithmic Thinking Course		4
Science		
Experimental Discovery in the Natural World Course		4
Science, Technology and Society Course		4
Major Requirements		
Required Mathematics Courses		
MATH-SHU 140	Linear Algebra	4
MATH-SHU 143 or MATH-SHU 201	Foundations of Mathematical Methods Honors Calculus	4
MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 235 or MATH-SHU 238	Probability and Statistics Honors Theory of Probability	4
MATH-SHU 262 or MATH-SHU 362	Ordinary Differential Equations Honors Ordinary Differential Equations	4
Constrained Electives ¹		
Select at least two of the following:		8
MATH-SHU 141	Honors Linear Algebra I	
MATH-SHU 142	Honors Linear Algebra II	
MATH-SHU 226	Functional Analysis	
MATH-SHU 282	Functions of a Complex Variable	
MATH-SHU 328	Honors Analysis I	
MATH-SHU 329	Honors Analysis II	
MATH-SHU 339	Real Variables	
MATH-SHU 348	Honors Algebra I	
MATH-SHU 349	Abstract Algebra I	
MATH-SHU 350	Probability Limit Theorems	
MATH-SHU 375	Topology	
MATH-SHU 377	Differential Geometry	
Additional Mathematics Electives ¹		
Select six of the following:		24
CSCI-SHU 2314	Discrete Mathematics	
MATH-SHU 160	Networks and Dynamics	
MATH-SHU 234	Mathematical Statistics	

MATH-SHU 250	Mathematics of Finance
MATH-SHU 251	Introduction to Math Modeling
MATH-SHU 252	Numerical Analysis
MATH-SHU 263	Partial Differential Equations
MATH-SHU 345	Introduction to Stochastic Processes
MATH-SHU 395	Special Topics in Math
MATH-SHU 997	Independent Study: Mathematics
<i>Senior Thesis</i>	
Other Elective Credits	28-36
Total Credits	128

¹ Please note that many elective courses have a prerequisite of either MATH-SHU 143 Foundations of Mathematical Methods and/or MATH-SHU 201 Honors Calculus.

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
MATH-SHU 140	Linear Algebra	4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 143	Foundations of Mathematical Methods	4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
MATH-SHU 235	Probability and Statistics	4
Math Elective or General Elective		4
Chinese or Core Course		4
Credits		16
4th Semester/Term		
Core Class		4
MATH-SHU 262	Ordinary Differential Equations	4
Math Elective or General Elective		4
Chinese or Core Course		4
Credits		16
5th Semester/Term		
Core Course or General Elective		4
Math Elective		4
Math Elective		4
General Elective		4
Credits		16
6th Semester/Term		
Math or General Elective		4
Math Elective		4
Math Elective		4

General Elective	4
Credits	16
7th Semester/Term	
Math Elective	4
Math or General Elective	4
General Elective	4
General Elective	4
Credits	16
8th Semester/Term	
Math Elective	4
Math or General Elective	4
General Elective	4
General Elective	4
Credits	16
Total Credits	128

Learning Outcomes

Upon successful completion of this program, students will:

1. Understand the fundamental theorems of calculus and analysis and be able to use them to solve problems.
2. Understand the fundamental theorems of algebra, geometry and probability and be able to use them to solve problems.
3. Understand the fundamental principles and skills in computational mathematics.

Policies

Program Policies

General Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
2. Students wishing to major in Mathematics are strongly advised to take the course MATH-SHU 140 Linear Algebra in their first year, as it is a prerequisite for most advanced math courses. This course can be taken at the same time as MATH-SHU 131 Calculus.
3. Students may elect to take more than two courses from the Constrained Math Electives area and apply it toward the Additional Electives requirement.
4. In their senior year, each Mathematics student is additionally required to complete a capstone project, ending with a written report and an oral presentation.

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Multivariable Calculus.

Math and Data Science Double Major Guidelines

Students who are interested in pursuing a Data Science major along with a Mathematics major can have more than two courses that may be double-counted between the majors. Students would need to complete course requirements for both majors. The following courses are allowed to double counted toward both majors:

Math and Data Science (Concentration in Finance)

- MATH-SHU 140 Linear Algebra
- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics **or** MATH-SHU 238 Honors Theory of Probability

Math and Data Science (Concentration in Mathematics)

- MATH-SHU 140 Linear Algebra
- MATH-SHU 201 Honors Calculus
- MATH-SHU 151 Multivariable Calculus
- MATH-SHU 235 Probability and Statistics **or** MATH-SHU 238 Honors Theory of Probability
- MATH-SHU 329 Honors Analysis II **or** MATH-SHU 142 Honors Linear Algebra II

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Mathematics (Minor)

Program Description

Mathematics is the cornerstone of science. It provides both the language and framework for scientific thought, incorporating logical rigor and the power of abstraction. These attributes allow human ingenuity to extract deep scientific understanding from relatively simple experiments and physical observations. Mathematics plays a double role: On the one hand, it is a scientific field of its own that has yielded powerful and surprisingly beautiful theoretical constructions. On the other hand, mathematics provides the toolbox needed to solve problems and to model phenomena observed in nature or of interest in industry and technology. As such, mathematics allows humans to model the physical universe, to build efficient algorithms in computing, to develop powerful artificial intelligence methods, to analyze financial markets, to produce predictions for climate science, to map and study the human genome, to analyze the structure of the human brain, and a long list of etcetera’s.

NYU Shanghai offers two tracks for a degree in Mathematics: Mathematics and Honors Mathematics. Both tracks develop the pure and applied aspects of the discipline. Math majors acquire a solid grasp of the main areas of mathematics while being invited, through a number of electives courses, to apply this knowledge in a wide range of areas, including computer science, physics, chemistry, engineering, data science, operations research, finance, etc. Graduates are qualified either to continue with further graduate education, or to start a career in industry, financial institutions, logistics, statistical consulting, or any activity requiring abstraction capability, mathematical modeling skills or relying on intensive computational or quantitative techniques.

The Honors Math track requires students to take the Honors version of the mandatory Math courses and to keep both a general and a Math Cumulative GPA higher or equal to 3.65. Honors courses have a broader scope and breadth than the regular courses, exposing students to general definitions and complete proofs. The Honors program is very demanding, as the combination of distinguished professors and a homogeneous

selected audience results in fast moving courses that often become undistinguishable from graduate courses.

Program Requirements

Course	Title	Credits
Four courses at the Calculus level or higher.		16
Total Credits		16

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Neural Science (BS)

CIP: 26.1501

Program Description

Neural science (NS) is a collection of disciplines unified by a concern for the function of the brain. Experimental approaches in neural science vary from analyses of molecular and cellular mechanisms in nerve cells and groups of nerve cells to behavioral and psychological studies of whole organisms. Theoretical tools include mathematical and computational modeling approaches that have proved useful in other areas of science. We attract students who are interested in understanding the brain’s command of all its diverse functions including but not limited to the following questions: How do cell circuits enable us to perceive, communicate, and solve problems? How do we think, remember, despair, or motivate? What are possible causes of devastating disorders of the brain and body, as well as ways to prevent or cure them?

The NS major studies the brain and its impact on behavior and cognitive functions, the understanding of which is regarded as the Holy Grail of the current century. Increasing understanding of the brain will enable scientists to develop treatments for neurodegenerative diseases (such as Parkinson’s disease & Alzheimer’s disease) and mental illnesses. NS research will also help us find out more about normal human behavior and mental wellbeing, and can thus help develop artificial intelligence

as well as treating illnesses. NS research could also lead to better understanding of how we learn, allowing us to optimize our intelligence. These developments are likely to provide significant benefits for society and have implications for a diverse range of public policy areas such as health, education, law, and security.

The undergraduate NS curriculum blends courses from many of the basic sciences (such as mathematics, biology, physics, & chemistry) as a foundation for higher level work in NS. NS major requirement contains 6 required courses including one capstone course and 2 elective courses. In addition, students who demonstrate a genuine interest in research and achieve a cumulative grade point average of 3.65 or higher in all courses required for the major and over all courses taken for credit can apply to be on Honors Track.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World Requirement Fulfilled by Major Coursework		
Science, Technology, and Society Requirement Fulfilled by Major Coursework		
Major Requirements		
<i>Foundational Courses</i>		
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
or CHEM-SHU 128	Foundations of Chemistry II Lab	
PHYS-SHU 11	General Physics I	3
or PHYS-SHU 91	Foundations of Physics I Honors	
PHYS-SHU 12	General Physics II	3

or PHYS-SHU 93	Foundations of Physics II Honors	
PHYS-SHU 71	Foundations of Physics Lab I	2
PHYS-SHU 94	Foundations of Physics Lab II	2

Required Major Courses

NEUR-SHU 100	Math Tools for Life Sciences	4
NEUR-SHU 201	Introduction to Neural Science	4
NEUR-SHU 251	Behavioral and Integrative Neuroscience	4
NEUR-SHU 210	Cellular and Molecular Neuroscience	4

Upper-level Elective

Select one approved upper-level Psychology or Biology course: 4

PSYCH-UA 29	Cognition	
PSYCH-UA 44	Lab in Perception	
PSYCH-UA 46	Lab in Cognition and Perception	
PSYCH-UA 60	Illusions to Inference	
BIOL-SHU 30	Genetics	
BIOL-SHU 263	Developmental Biology	
CHEM-SHU 881	Biochemistry I	
CHEM-SHU 882	Biochemistry II	
BIOL-UA 25	Physiology	
NEUR-SHU 222	Perception	
NEUR-SHU 131	Neural Bases of Speech and Language	

Major Capstone Course

Complete 4-8 credits of: 4-8

NEUR-SHU 997	Independent Study I - Neural Science Capstone	
NEUR-SHU 998	Independent Study II - Neural Science	

Major Electives

Select two of the following: 8

MATH-SHU 160	Networks and Dynamics	
NEUR-SHU 261	Neurobiology of Decision Making	
NEUR-SHU 131	Neural Bases of Speech and Language	
NEUR-SHU 270	Introduction to Theoretical Neuroscience	
NEUR-SHU 301	Action and Cognition	
NEUR-SHU 130	Introduction to Linguistics: The Science of Human Language	
NEUR-SHU 132	Meaning	
CCEX-SHU 122	Perception and the Brain	
NEURL-UA 302	Special Topics in Neural Science	
NEURL-UA 305	Development and Dysfunction of the Nervous System	

Other Elective Credits 24-34

Total Credits 128

General Electives

General Elective courses to meet 128 credit requirements. Students may take any courses in the NYU system to meet the general elective requirements. They are strongly encouraged (but not required) to take Introduction to Programming and choose from the following listed courses to develop research skills.

Course	Title	Credits
<i>Recommended Computer Science General Electives</i>		
CSCI-SHU 101	Introduction to Computer and Data Science	4
CSCI-SHU 220	Algorithms	4
CSCI-SHU 360	Machine Learning	4
EENG-SHU 251	Circuits	4
<i>Recommended Mathematics General Electives</i>		
MATH-SHU 140	Linear Algebra	4
MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 235	Probability and Statistics	4
MATH-SHU 238	Honors Theory of Probability	4
MATH-SHU 263	Partial Differential Equations	4

Sample Plan of Study
Sample Plan 1

This is just one example of how a student could organize their courses if pursuing a NS major. It assumes a student begins taking NS major courses in the first semester of their first year. Sample Schedule 2 offers an alternate plan that involves beginning to pursue a NS major in the spring semester of the first year. Students may propose alternative schedules to their advisors as well.

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
PHYS-SHU 11 or PHYS-SHU 91	General Physics I or Foundations of Physics I Honors	3
CHEM-SHU 125	Foundations of Chemistry I	3
Chinese or EAP		4
Credits		18
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
Core or Neural Science Elective		4
BIOL-SHU 21	Foundations of Biology I	3
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 128	Foundations of Chemistry II Lab	2
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
NEUR-SHU 201	Introduction to Neural Science	4
NEUR-SHU 100	Math Tools for Life Sciences	4
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123 or PHYS-SHU 71	Foundations of Biology Lab or Foundations of Physics Lab I	2
Credits		17
4th Semester/Term		
NEUR-SHU 251	Behavioral and Integrative Neuroscience	4
NEUR-SHU 210	Cellular and Molecular Neuroscience	4
PHYS-SHU 12 or PHYS-SHU 93	General Physics II or Foundations of Physics II Honors	3
PHYS-SHU 94	Foundations of Physics Lab II	2

NS elective, Core, Chinese or EAP, or General Elective		4
Credits		17
5th Semester/Term		
Neural Science Elective		4
Neural Science Elective		4
General Elective		4
Chinese or General Elective		4
Credits		16
6th Semester/Term		
Approved upper-level course in either Psychology or Biology		4
Neural Science Elective		4
General Elective		4
Chinese or General Elective		4
Credits		16
7th Semester/Term		
General Elective		4
Major Capstone or General Elective		4
General Elective		4
General Elective		2
BIOL-SHU 123 or PHYS-SHU 71	Foundations of Biology Lab or Foundations of Physics Lab I	2
Credits		16
8th Semester/Term		
Major Capstone or General Elective		4
General Elective		4
General Elective		4
Credits		12
Total Credits		128

Sample Plan 2

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
Core Course		4
Chinese or EAP or General Elective		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
Core Course		4
BIOL-SHU 21	Foundations of Biology I	3
Chinese or EAP or General Elective		4
Credits		15
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
NEUR-SHU 201	Introduction to Neural Science	4
NEUR-SHU 100	Math Tools for Life Sciences	4
BIOL-SHU 22	Foundations of Biology II	3
PHYS-SHU 11 or PHYS-SHU 91	General Physics I or Foundations of Physics I Honors	3
Credits		18
4th Semester/Term		
NEUR-SHU 251	Behavioral and Integrative Neuroscience	4
NEUR-SHU 210	Cellular and Molecular Neuroscience	4
PHYS-SHU 12 or PHYS-SHU 93	General Physics II or Foundations of Physics II Honors	3
PHYS-SHU 94	Foundations of Physics Lab II	2
Chinese or General Electives		4
Credits		17
5th Semester/Term		
Neural Science Elective		4
Neural Science Elective		4

General Elective	4
Chinese or General Elective	4
Credits	16
6th Semester/Term	
Approved upper-level course in either Psychology or Biology	4
General Elective	4
General Elective	4
Chinese or General Elective	4
Credits	16
7th Semester/Term	
PHYS-SHU 71 Foundations of Physics Lab I	2
CHEM-SHU 125 Foundations of Chemistry I	3
BIOL-SHU 123 Foundations of Biology Lab	2
Major Capstone or General Elective	4
General Elective	4
Credits	15
8th Semester/Term	
PHYS-SHU 94 Foundations of Physics Lab II	2
CHEM-SHU 126 Foundations of Chemistry II	3
CHEM-SHU 128 Foundations of Chemistry II Lab	2
General Elective	4
General Elective	4
Credits	15
Total Credits	128

Learning Outcomes

Upon completion of this program, students will:

1. Demonstrate basic understanding of core findings from across the discipline of neuroscience, including the areas of molecular and cellular neuroscience, neural circuits and systems, & cognitive and behavioral neuroscience.
2. Use the knowledge in neuroscience to critically evaluate neuroscience research.
3. Apply theories, concepts, and research findings to solving problems in novel situations.
4. Demonstrate ability to design/evaluate methods of experiments to test research hypotheses, implement research designs, and be able to conduct relevant statistical tests to analyze data.
5. Write a clear individual/group research report of a neuroscience study including synthesis of relevant material, derivation of hypotheses, report of appropriate statistical tests, and discussion of theoretical and practical implications of the research.

Policies

General Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
2. NS majors are encouraged to complete the *Foundational Courses* in their first 2 years.
3. Relationship between General Physics and Foundations of Physics Honors: General Physics I & II is a calculus-based course for pre-

meds, engineers, and others who want a broad introduction and survey of basic physics including classical mechanics, electricity and magnetism, optics and waves, and thermal and statistical physics. Foundations of Physics I-IV Honors covers a similar set of topics in considerably greater depth, plus special relativity and an introduction to quantum mechanics, over four semesters.

4. Relationship between General Physics and Foundations of Physics Honors: General Physics I & II is a calculus-based course for pre-meds, engineers and others who want a broad introduction and survey of basic physics including classical mechanics, electricity and magnetism, optics and waves, and thermal and statistical physics. Foundations of Physics I-IV Honors covers a similar set of topics in considerably greater depth, plus special relativity and an introduction to quantum mechanics, over four semesters. Please note that Foundations of Physics I & II Honors alone do not include some important topics, such as optics, thermal and statistical physics, which are included in Foundations of Physics III Honors, and introduction to mechanics and condensed matter physics in Foundations of Physics IV Honors. Therefore, students electing to take the Honors Physics track are highly recommended to take Foundations of Physics III Honors and Foundations of Physics IV Honors as well. Students with a strong high-school background in physics and mathematics are also highly recommended to take Foundations of Physics Honors I-IV.
5. NEUR-SHU 997/998 Independent Study in Neural Science (can be repeated once): Open to senior neural science majors. Prerequisite: All Neural Science Major Required Courses (Introduction to Neural Science, Cellular and Molecular Neuroscience, Behavioral and Integrative Neuroscience, Math Tools for Behavioral Science), permission of a Neural Science faculty member (at NYU-Shanghai, NYU-Abu Dhabi, or NYU-New York) who will act as a sponsor and mentor. Independent Study must have a combined total of at least 4 credits but no more than 8 credits to fulfill the major capstone course requirement. The 4-credit requirement can be fulfilled in 1 semester with a 4-credit load or over 2 semesters with a 2-credit load in each semester.
6. Students may take any courses in the NYU system to meet the general elective requirements. They are strongly encouraged (but not required) to take Introduction to Programming and choose from the courses listed in the "Recommended General Electives".

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Foundations of Biology I.

Global Network Courses

Requirements may be met through taking equivalent courses in the Global Network with the prior approval from the Director of Undergraduate Studies (DUS) for Neural Science.

Neural Science and Biology Double Major Guidelines

Students can not double major in Neural Science and Biology.

Neural Science and Data Science Double Major Guidelines

Students who are interested in pursuing a Data Science major along with a Business major, an Economics major, a Mathematics major, a Neural Science major or a Social Science major have the option to

double-count more than two courses between the majors. To complete both majors successfully, students would need to complete the course requirements for both majors. However, the following courses are allowed to be double-counted toward both majors:

Neural Science and Data Science (Concentration in Genomics)

- MATH-SHU 140 Linear Algebra
- MATH-SHU 235 Probability and Statistics
- BIOL-SHU 21 Foundations of Biology I
- BIOL-SHU 22 Foundations of Biology II
- BIOL-SHU 123 Foundations of Biology Lab

Students who take Linear Algebra and Probability and Statistics are not allowed to take NEUR-SHU 100 Math Tools for Life Science course. If you have not decided yet to pursue a double major and take NEUR-SHU 100 Math Tools for Life Science first, you are required to take Linear Algebra and Probability and Statistics.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Neural Science (Minor)
Program Description

Neural science (NS) is a collection of disciplines unified by a concern for the function of the brain. Experimental approaches in neural science vary from analyses of molecular and cellular mechanisms in nerve cells and groups of nerve cells to behavioral and psychological studies of whole organisms. Theoretical tools include mathematical and computational modeling approaches that have proved useful in other areas of science. We attract students who are interested in understanding the brain’s command of all its diverse functions including but not limited to the following questions: How do cell circuits enable us to read and speak? How and why do we form relationships? How do we think, remember, despair, or motivate? What are possible causes of devastating disorders of the brain and body, as well as ways to prevent or cure them?

The NS major studies the brain and its impact on behavior and cognitive functions, the understanding of which is regarded as the Holy Grail of the current century. Increasing understanding of the brain will enable scientists to develop treatments for neurodegenerative diseases (such as Parkinson’s disease & Alzheimer’s disease) and mental illnesses. NS research will also help us find out more about normal human behavior and mental wellbeing, and can thus help develop artificial intelligence as well as treating illnesses. NS research could also lead to better understanding of how we learn, allowing us to optimize our intelligence. These developments are likely to provide significant benefits for society and have implications for a diverse range of public policy areas such as health, education, law, and security.

The undergraduate NS curriculum blends courses from many of the basic sciences (such as mathematics, biology, physics, & chemistry) as a foundation for higher level work in NS. NS major requirement contains 6 required courses including one capstone course and 2 elective courses. In addition, students who demonstrate a genuine interest in research and

achieve a cumulative grade point average of 3.65 or higher in all courses required for the major and over all courses taken for credit can apply to be on Honors Track.

Program Requirements

Course	Title	Credits
Basic Science Courses		
BIOL-SHU 21	Foundations of Biology I	3
BIOL-SHU 22	Foundations of Biology II	3
BIOL-SHU 123	Foundations of Biology Lab	2
Neural Science Required Courses		
NEUR-SHU 201	Introduction to Neural Science	4
NEUR-SHU 251	Behavioral and Integrative Neuroscience	4
or NEUR-SHU 210	Cellular and Molecular Neuroscience	
Total Credits		16

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Philosophy (Minor)
Program Description

Philosophy is the attempt to answer the most fundamental questions concerning the world, ourselves, and the relation between the two. Drawing from both historical and contemporary texts, students explore a broad number of philosophical theories, approaches, and debates. Through the process of argument evaluation, students learn the analytical methods of philosophy, with an emphasis on formal argumentation and formal modeling. Courses are designed to both introduce students to philosophy in general, and to other disciplines, including computer science, biology, and political science. A minor in Philosophy puts students in a position to produce original philosophical work, and keep up with ongoing philosophical conversations.

Program Requirements

Course	Title	Credits
Four classes from the required and elective list of Humanities major Philosophy courses.		16
Total Credits		16

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Physics (BS)

CIP: 40.0801

Program Description

Physics is a broad discipline, ranging from fundamental scientific questions to sophisticated technological applications. At its most basic, it is the study of matter and energy and their manifold interactions. Physicists study topics as wide-ranging as the underlying nature of space and time; the origins, large-scale structure, and future evolution of the universe; the behavior of stars and galaxies; the fundamental constituents of matter; the many different patterns in which matter is organized, including superconductivity, liquid crystals, or the various forms of magnetism in solids; the workings of biological matter, whether in molecules such as DNA, or cellular structures, or the transport of matter and energy in and across cells; and many others. Basic physics research has led to myriad technological advances, which have transformed society in the 20th century through the present day; a small list includes: radio and television; computers; lasers; X-rays; magnetic resonance imaging and CAT scans; and the World Wide Web.

Physics is a hands-on discipline, and our students gain expertise not only in the classroom but also in the laboratory. They may participate in activities ranging from the writing of realistic computer modeling of fundamental physical principles to the modeling of financial activities, as well as the more traditional activities of physicists and mathematicians. Those trained in physics are found in many occupations, such as various fields of engineering, computer technology, health, environmental and

earth sciences, communications, finance, and science writing. A higher degree opens the possibility of creative research in industry, or teaching and research in colleges and universities. Outstanding and highly motivated students are offered special opportunities for honors work, independent study, summer laboratory research, internships, and other enhancements. Our interdisciplinary approach and experimental work is geared to meet the current demand for scientists with well-integrated backgrounds who became the leaders in modern scientific scholarship and who pursue careers in research, education, industry, health care, business, and publishing.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
<i>Social and Cultural Foundations</i>		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
<i>Writing</i>		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
<i>Language</i>		
Language Courses		8-16
<i>Mathematics</i>		
MATH-SHU 131	Calculus	4
<i>Algorithmic Thinking</i>		
Algorithmic Thinking Course		4
<i>Science</i>		
Experimental Discovery in the Natural World Requirement Fulfilled by Major Coursework		
Science, Technology, and Society Requirement Fulfilled by Major Coursework		
Major Requirements		
<i>Foundational Courses</i>		
CHEM-SHU 125	Foundations of Chemistry I	3
CHEM-SHU 126	Foundations of Chemistry II	3
CHEM-SHU 127	Foundations of Chemistry I Lab	2
or CHEM-SHU 128	Foundations of Chemistry II Lab	
PHYS-SHU 11	General Physics I	3
or PHYS-SHU 91	Foundations of Physics I Honors	
PHYS-SHU 93	Foundations of Physics II Honors	3
PHYS-SHU 95	Foundations of Physics III Honors	3
PHYS-SHU 96	Foundations of Physics IV Honors	3
PHYS-SHU 71	Foundations of Physics Lab I	2
PHYS-SHU 94	Foundations of Physics Lab II	2
<i>Required Courses</i>		
MATH-SHU 140	Linear Algebra	4

MATH-SHU 151	Multivariable Calculus	4
MATH-SHU 235	Probability and Statistics	4
PHYS-SHU 106	Mathematical Physics	4
PHYS-SHU 251	Electricity and Magnetism	4
PHYS-SHU 302	Statistical Mechanics and Thermodynamics	4
PHYS-UA 123	Quantum Mechanics I	3
PHYS-SHU 303	Advanced Physics Laboratory	4
PHYS-SHU 998	Integrated Science Capstone	4
<i>Physics Electives</i>		
Select three of the following:		11
PHYS-SHU 135	Solid-State Physics	
PHYS-SHU 201	Introduction to Quantum Computing	
PHYS-GA 7001	Introduction to Quantum Communication	
Other Elective Credits		16-25
Total Credits		131

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
MATH-SHU 131	Calculus	4
PHYS-SHU 91	Foundations of Physics I Honors	3
PHYS-SHU 71	Foundations of Physics Lab I	2
CHEM-SHU 125	Foundations of Chemistry I or Core Language Course (recommended)	3 or 4
Credits		16-17
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
MATH-SHU 151	Multivariable Calculus	4
PHYS-SHU 93	Foundations of Physics II Honors	3
PHYS-SHU 94	Foundations of Physics Lab II	2
CHEM-SHU 126	Foundations of Chemistry II or Core Language Course (recommended)	3 or 4
Credits		16-17
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
MATH-SHU 140	Linear Algebra	4
PHYS-SHU 95	Foundations of Physics III Honors	3
CHEM-SHU 127 or CHEM-SHU 125	Foundations of Chemistry I Lab or Foundations of Chemistry I	2 or 3
MATH-SHU 235	Probability and Statistics	4
Credits		17-18
4th Semester/Term		
PHYS-SHU 96	Foundations of Physics IV Honors	3
PHYS-SHU 106	Mathematical Physics	4
CHEM-SHU 126	Foundations of Chemistry II	3
Chinese or EAP		4
Credits		14
5th Semester/Term		
PHYS-SHU 251	Electricity and Magnetism	4
PHYS-UA 123	Quantum Mechanics I	3
Physics Elective		4
Chinese or General Elective		4
Credits		15
6th Semester/Term		
PHYS-SHU 302	Statistical Mechanics and Thermodynamics	4
Physics Elective		4

General Elective		4
Chinese or General Elective		4
Credits		16
7th Semester/Term		
PHYS-SHU 998	Integrated Science Capstone	4
Physics Elective		4
Core Course or General Elective		4
Core Course or General Elective		4
Credits		16
8th Semester/Term		
PHYS-SHU 303	Advanced Physics Laboratory	4
Core Course or General Elective		4
General Elective		4
General Elective		4
General Elective		2
Credits		18
Total Credits		128-131

Learning Outcomes

Upon successful completion of this program, students will:

1. Demonstrate an understanding of core knowledge in physics and also apply these concepts, knowledge and numerical techniques to new situations or datasets to solve problems.
2. Synthesize data (e.g., from experiments or observations) by designing and executing scientific experiments, and conducting relevant statistical tests.
3. Construct models that describe how physical phenomena occur by analyzing scientific data.
4. Effectively communicate their problem-solving rationale or research work in spoken, visual and written form.
5. Critically evaluate their own works, as well as those of their peers and works from the current literature in physical sciences.
6. Display routine practice of laboratory safety, including performing risk assessments, following established safety protocols, using appropriate personal protective equipment, and maintaining detailed laboratory notebooks.

Policies

Program Policies

1. Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).
2. A note on the relationship between General Physics and Foundations of Physics Honors: General Physics I & II is a calculus-based course for pre-meds, engineers and others who want a broad introduction and survey of basic physics including classical mechanics, electricity and magnetism, optics and waves, and thermal and statistical physics. Foundations of Physics I-IV Honors covers a similar set of topics in considerably greater depth, plus special relativity and an introduction to quantum mechanics, over four semesters. It should be emphasized that Foundations of Physics I & II Honors alone do not include some important topics, such as optics, thermal and statistical physics, which are included in Foundations of Physics III Honors, and

introduction to quantum mechanics and condensed matter physics in Foundations of Physics IV Honors. Therefore, students electing to take the Honors Physics track are highly recommended to take Foundations of Physics III Honors and Foundations of Physics IV Honors as well.

- Students who have taken General Physics I and received a B+ or better grade also satisfy the prerequisite to take Foundations of Physics II Honors. Such students may also become Physics Majors and do not have to retake Foundations of Physics I Honors. However, students who already are interested in majoring in Physics, as well as those interested in the honors track, or those with a strong high-school background in physics and mathematics are strongly recommended to take Foundations of Physics I-IV Honors.

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Foundations of Physics II.

Minimum GPA

Physics, Chemistry and Electrical Engineering majors' students must achieve and maintain a minimum 3.0 cumulative and major GPA in order to declare the major. Since they are required to study away in NY or AD for their junior year in order to complete major coursework offered at those campuses, they must complete all of the prerequisite courses at NYU Shanghai for the junior year major classes they need to take in New York or AD before they will be admitted to study away. If declared majors fail to maintain a 3.0 GPA or do not complete the required courses during study away, they may be required to declare a different major to be able to graduate.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Physics (Minor)

Program Description

Physics is a broad discipline, ranging from fundamental scientific questions to sophisticated technological applications. At its most basic, it is the study of matter and energy and their manifold interactions. Physicists study topics as wide-ranging as the underlying nature of space and time; the origins, large-scale structure, and future evolution of the universe; the behavior of stars and galaxies; the fundamental constituents of matter; the many different patterns in which matter is organized, including superconductivity, liquid crystals, or the various forms of magnetism in solids; the workings of biological matter, whether in molecules such as DNA, or cellular structures, or the transport of matter and energy in and across cells; and many others. Basic physics research has led to myriad technological advances, which have transformed society in the 20th century through the present day; a small list includes: radio and television; computers; lasers; X-rays; magnetic resonance imaging and CAT scans; and the World Wide Web.

Physics is a hands-on discipline, and our students gain expertise not only in the classroom but also in the laboratory. They may participate in activities ranging from the writing of realistic computer modeling of fundamental physical principles to the modeling of financial activities, as

well as the more traditional activities of physicists and mathematicians. Those trained in physics are found in many occupations, such as various fields of engineering, computer technology, health, environmental and earth sciences, communications, finance, and science writing. A higher degree opens the possibility of creative research in industry, or teaching and research in colleges and universities. Outstanding and highly motivated students are offered special opportunities for honors work, independent study, summer laboratory research, internships, and other enhancements. Our interdisciplinary approach and experimental work is geared to meet the current demand for scientists with well-integrated backgrounds who became the leaders in modern scientific scholarship and who pursue careers in research, education, industry, health care, business, and publishing.

Program Requirements

Course	Title	Credits
PHYS-SHU 11 or PHYS-SHU 91	General Physics I Foundations of Physics I Honors	3
PHYS-SHU 12 or PHYS-SHU 93	General Physics II Foundations of Physics II Honors	3
PHYS-SHU 71	Foundations of Physics Lab I	2
PHYS-SHU 94	Foundations of Physics Lab II	2
Two Physics Elective Courses (must bring total credits of the minor courses to 16 or more)		8
Total Credits		18

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Self-Designed Honors (BA)

CIP: 24.0101

Program Description

Students at NYU Shanghai can apply to craft and complete a Self-Designed Honors major, rather than one of the existing majors at the campus. This major enables a small number of very capable and highly motivated students to pursue a plan of study that brings together courses from more than one NYU department or program. During their sophomore year, students compose their academic plan for the major in consultation with their two faculty advisers for their self-designed program of study as well as with the Associate Provost for Academic Affairs. Their two faculty advisers have to be from different majors and one has to be from a relevant department in New York if more than three of the required classes are from a major that exists in New York but not in Shanghai.

This NYU Shanghai major serves students who can realize their interdisciplinary goals within the NYU's global network, drawing on courses from any of the study away sites and degree-granting campuses. The honors major has prerequisites for entry (3.75 GPA; students must maintain a 3.65 GPA to remain in the major) and entails a heavy commitment to honors-level work, including independent research under faculty supervision. Applications are due by 1 April of a student's sophomore year. Proposals are only reviewed once a year and only for current sophomores. For more information, see Self-Designed Honors Major (<https://shanghai.nyu.edu/academics/majors/self-designed-honors-major/>).

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Course	Title	Credits
Core Courses		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		
Language Courses		8-16
Mathematics		
MATH-SHU 131	Calculus	4
Algorithmic Thinking		
Algorithmic Thinking Course		4
Science		
Experimental Discovery in the Natural World Course		4
Science, Technology and Society Course		4
Major Requirements and General Electives		
Approved Major and Elective Courses		76-84
Total Credits		128

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
Core Course		4
Core Course		4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
Major Course		4
Core Course		4
Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
Core Course		4
Major Course		4
Chinese or Core Course		4
Credits		16
4th Semester/Term		
Core Course		4
Major Course		4
Major Course		4
Chinese or Core Course		4
Credits		16
5th Semester/Term		
Core Course		4
Major Course		4
General Elective		4
General Elective		4
Credits		16
6th Semester/Term		
Core Course		4
Major Course		4
Major Course		4
General Elective		4
Credits		16
7th Semester/Term		
Capstone Seminar		4
Major Course		4
Major Course		4
General Elective		4
Credits		16
8th Semester/Term		
Capstone Seminar		4
Major Course		4
Major Course		4
Major Course		4
Credits		16
Total Credits		128

Learning Outcomes

Upon successful completion of this program:

- 1. All students learn how to forge their various and sometimes disparate intellectual and/or artistic interests into an individualized program of inquiry and learning that comprises their major demonstrating breadth, depth, and coherence.

2. Students gain proficiency in oral and written communication. They learn to write clear and well-developed analytical prose that reflects careful and complex thinking.
3. Students learn the critical analysis of ideas, themes and texts from major historical, cultural, scientific and philosophical traditions.
4. Students learn to become active learners in the classroom, and to probe the relationship between the material they study in the classroom and the world's outside of it - in the city and in the world beyond, in the domain of work beyond the classroom, and in the professions they seek to enter.
5. Students learn to approach their own lines of inquiry with creativity and rigor, which transcend traditional disciplinary and professional categories and via the conception and execution of individualized and innovative projects.

Policies

Program Policies

Students who did not attend a Chinese-medium high school fulfill the Core language requirement by demonstrating proficiency of the Chinese language through the Intermediate level. Chinese speakers who did not attend an English-medium high school fulfill the Core language requirement through completion of EAP-SHU 100 English for Academic Purposes I and EAP-SHU 101 English for Academic Purposes II. Additional information can be found on the NYU Shanghai Core Curriculum page (p. 33).

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Social Science (BA)

CIP: 45.0101

Program Description

Social scientists study human interactions among individuals, families, communities, nations, and the built and natural environments. Using a range of analytical, interpretive, and experimental tools from anthropology, economics, epidemiology, political science, psychology and sociology, social scientists seek to understand conflict and cooperation, epidemics of disease and poverty, social organization and social change, kinship and belonging, human development, systems of exchange, and other enduring questions at the center of our shared humanity.

Students who complete the Social Science major at NYU Shanghai will be prepared to pursue careers and advanced study in fields as diverse as anthropology, business, development, economics, education, environmental studies, journalism, law, psychology, political science, public health, public service, sociology, and social policy. The major offers students a unique opportunity to explore broad areas of social science research and thought, while also allowing a concentration in one of multiple tracks within the major.

Tracks

Tracks within the major include:

- Anthropology (p. 313)
- Environmental Studies (p. 313)
- Global Public Health (<https://wiztest/shanghai-social-science-krd/curriculumtext/>)
- International Relations (p. 313)
- Political Economy (p. 313)
- Political Science (p. 313)
- Psychology (p. 313)
- Sociology (p. 313)
- Urban Studies (<https://wiztest/shanghai-social-science-krd/curriculumtext/>)
- Self-Designed Track (Requires prior approval from Undergraduate Coordinator)

The Social Science major encourages interdisciplinary inquiry into the complex problems of our contemporary world and the cross-disciplinary exchange that is at the heart of many of the most interesting advances in social science research today.

Social Science majors at NYU Shanghai develop competence in a variety of research tools in two methods courses and complete two interdisciplinary core courses unique to the major. Social Science majors select two foundational courses in the social science disciplines, and three focus courses in one track to deepen their intellectual specialization (tracks include: anthropology, environmental studies, global public health, international relations, political economy, political science, psychology, sociology, or urban studies). China – its peoples and politics – is an important focus for teaching and learning in the major, but the Social Science Area is purposefully global in perspective and heterogeneous in the methodological and analytical scope of its course offerings. Social Science majors complete an independent research project as a senior year capstone.

NYU Shanghai students interested in a disciplinary focus in Economics are advised to pursue the Economics (BA) (p. 273) program instead of the Social Science major.

Admissions

New York University's Office of Undergraduate Admissions supports the application process for all undergraduate programs at NYU. For additional information about undergraduate admissions, including application requirements, see How to Apply (<https://www.nyu.edu/admissions/undergraduate-admissions/how-to-apply.html>).

Program Requirements

Overview

Beyond Core Requirements and elective credits, the Social Science (BA) degree is divided into five sections:

- Foundational Courses
- Methods Courses
- Major Core Courses
- Focus Courses
- Capstone

Focus courses are selected from one of the following tracks:

- Anthropology (p. 315)
- Environmental Studies (p. 315)

- Global Public Health (p. 315)
- International Relations (p. 315)
- Political Economy (p. 315)
- Political Science (p. 315)
- Psychology (p. 316)
- Sociology (p. 316)
- Urban Studies (p. 316)
- Self-Designed Concentration (Requires prior approval from Undergraduate Coordinator)

While MATH-SHU 131 Calculus is not a degree requirement, it is strongly encouraged to fulfill the Mathematics requirements. MATH-SHU 131 Calculus is a common prerequisite for focus courses. Additionally, students pursuing the Social Science (BA) should carefully review the policies for the major.

Requirements

Course	Title	Credits
Core Courses		
Social and Cultural Foundations		
CCSF-SHU 101L	Global Perspectives on Society	4
Interdisciplinary Perspectives on China (Two Courses)		8
Writing		
WRIT-SHU 102	Writing as Inquiry	4
WRIT-SHU 201	Perspectives on the Humanities	4
Language		
Language Courses		8-16
Mathematics		
MATH-SHU 131	Calculus	4
Algorithmic Thinking		
Algorithmic Thinking Course		4
Science		
Experimental Discovery in the Natural World Course		4
Science, Technology and Society Course		4
Major Requirements		
Foundational Courses		
Select two of the following:		8
ECON-SHU 1	Principles of Macroeconomics	
ECON-SHU 3	Microeconomics	
ECON-SHU 251	Economics of Global Business	
PSYC-SHU 101	Introduction to Psychology	
SOCS-SHU 110	Introduction to Sociology	
SOCS-SHU 130	Introduction to Political Theory	
SOCS-SHU 133	Urbanization in China	
SOCS-SHU 135	Environment and Society	
SOCS-SHU 136	Human Society and Culture	
SOCS-SHU 145	Foundations of Public Policy	

SOCS-SHU 150	Introduction to Comparative Politics	
SOCS-SHU 160	Introduction to International Politics	
SOCS-SHU 170	Introduction to Global Health	
SOCS-SHU 190	Introduction to the Computational Social Science Methods	
Methods Courses		
Select two of the following:		8
BUSF-SHU 101	Statistics for Business and Economics ⁴	
GCHN-SHU 133	Visualizing Global China	
MATH-SHU 235	Probability and Statistics ⁴	
SOCS-SHU 141	Methods of Social Research	
SOCS-SHU 175	Qualitative Methods in Social Sciences	
SOCS-SHU 205	Fundamentals of Spatial Analytics	
SOCS-SHU 210	Statistics for the Behavioral & Social Sciences ⁴	
SOCS-SHU 213	Applied Social Network Analysis	
SOCS-SHU 215	Pixelizing Societies from Space: Remote Sensing Perspectives	
SOCS-SHU 218	Data Management for Quantitative Social Science	
SOCS-SHU 240	Survey Research Methods	
SOCS-SHU 247	Computational Urban Science	
SOCS-SHU 318	Ethnographic Methods	
SOCS-SHU 350	Empirical Research Practice	
Major Core Courses		
Select two of the following:		8
SOCS-SHU 151	Adolescence, Human Development, and Contexts: A Multi-disciplinary Perspective	
SOCS-SHU 223	Discrimination and Societal Analysis	
SOCS-SHU 228	Merchants, Chiefs, and Spirits	
SOCS-SHU 229	Capitalism, Socialism, Communism: Theory and Practice	
SOCS-SHU 236	The Chinese Family	
SOCS-SHU 245	Ethnographic Thinking	
SOCS-SHU 253	Nature in Social Thought	
SOCS-SHU 270	Social Change in Contemporary China	

SOCS-SHU 289	From Soil to Society: Exploring Earth Systems and Human Factors	
SOCS-SHU 334	Legal Psychology	
SOCS-SHU 352	Society on Trial - Significant Legal Trials in History	
SOCS-SHU 378	Feminist Social Theory	
Focus Courses		
Select three courses from one of the following tracks: (see track requirements below)		12
Anthropology		
Environmental Studies		
Global Public Health		
International Relations		
Political Economy		
Political Science		
Psychology		
Sociology		
Urban Studies		
Capstone		
SOCS-SHU 401	Social Science Senior Seminar (Capstone)	4
SOCS-SHU 402	Social Science Capstone Seminar	4
Electives		
Other Elective Credits		32-40
Total Credits		128

Tracks

Note: These are sample courses. Some courses count for more than one track; consult an academic adviser for details.

Anthropology

Course	Title	Credits
ART-SHU 250	Visual Culture and Social Art Practice: Collaborations and Community Interactions	4
GCHN-SHU 216	Psychology and Modernity in China	4
GCHN-SHU 226	Queer China	4
GCHN-SHU 246	Youth and Consumer Culture in China	4
GCHN-SHU 277	Medicine in China	4
HUMN-SHU 212	Paper City: Examining Urban Bureaucracies Ethnographically	4
SOCS-SHU 241	Cultures of Business and Work	4
SOCS-SHU 244	Anthropology of Mental Illness	4
SOCS-SHU 254	Ethnographies of Change in China	4
SOCS-SHU 328	Sexuality in the Digital Age	4

Environmental Studies

Course	Title	Credits
GCHN-SHU 243	China and the Environment	4
SOCS-SHU 204	Environmental System Science	4
SOCS-SHU 208	Cities at Crossroads: Environmental Challenges and Opportunities in Cities	4
SOCS-SHU 224	Climate Change and Society	4

SOCS-SHU 289	From Soil to Society: Exploring Earth Systems and Human Factors	4
SOCS-SHU 330	Urban Political Ecology	4
SOCS-SHU 333	Global Environmental Politics	4

Global Public Health

Course	Title	Credits
GCHN-SHU 277	Medicine in China	4
HIST-SHU 205	History of Modern Medicine	4
PSYC-SHU 317	Psychology of Sexual Orientation and Gender Diversity	4
SOCS-SHU 260	Contemporary Challenges in Global Health	4
SOCS-SHU 262	Digital Health, Digital Interventions	4
SOCS-SHU 294	Infectious Diseases: From Pathogen to Pandemic	4
SOCS-SHU 306	Pestilence: Critical Perspectives in Global Health	4
SOCS-SHU 315	From Theory to Practice: Program Development & Evaluation	4
SOCS-SHU 332	Global Mental Health	4

International Relations

Course	Title	Credits
HIST-SHU 188	Empires in World History	4
SOCS-SHU 232	International Law and Institutions	4
SOCS-SHU 252	Ethics and Global Governance	4
SOCS-SHU 275	US-China Relations	4
SOCS-SHU 333	Global Environmental Politics	4
SOCS-SHU 370	China's Foreign Policy	4
SOCS-SHU 380	International Relations of the Asia-Pacific	4
SOCS-SHU 391	International Investment in Developing Countries: China and Africa	4

Political Economy

Course	Title	Credits
ECON-SHU 335	Development Economics	4
SOCS-SHU 222	International Political Economy	4
SOCS-SHU 326	Poverty and Inequality Around the Globe	4
SOCS-SHU 391	International Investment in Developing Countries: China and Africa	4

Political Science

Course	Title	Credits
SOCS-SHU 220	Law and Society in the U.S.	4
SOCS-SHU 272	The U.S. Constitution: Is It relevant to China?	4
SOCS-SHU 330	Urban Political Ecology	4
SOCS-SHU 331	Politics in China	4
SOCS-SHU 339	Comparative Revolutions	4
SOCS-SHU 340	Comparative Constitutions	4
SOCS-SHU 378	Feminist Social Theory	4
SOCS-SHU 380	International Relations of the Asia-Pacific	4
SOCS-SHU 391	International Investment in Developing Countries: China and Africa	4

Psychology

Course	Title	Credits
HIST-SHU 310	The Birth of Psychology	4
PSYC-SHU 201	Social Psychology	4
PSYC-SHU 210	Psychotherapy Theories & Research	4
PSYC-SHU 220	Cognitive Psychology	4
PSYC-SHU 234	Developmental Psychology	4
PSYC-SHU 238	Abnormal Psychology	4
PSYC-SHU 329	Parenting and Culture	4
PSYC-SHU 352	Psychology of Human Sexuality	4
PSYC-SHU 365	Emotional Development	4
PSYC-SHU 382	Psychotherapy Skills Practice	4
SOCS-SHU 383	Children and the Legal System	4

Sociology

Course	Title	Credits
SOCS-SHU 213	Applied Social Network Analysis	4
SOCS-SHU 219	Family and Society	4
SOCS-SHU 227	Inequality and Society	4
SOCS-SHU 265	Population and Society	4
SOCS-SHU 345	Organizations and Society	4
SOCS-SHU 360	The City and Society	4
SOCS-SHU 361	Education and Society	4
SOCS-SHU 388	Chinese Social Stratification in Comparative Perspective	4

Urban Studies

Course	Title	Credits
HUMN-SHU 184	Urban Geography	4
HUMN-SHU 212	Paper City: Examining Urban Bureaucracies Ethnographically	4
SOCS-SHU 199	Global Transportation	4
SOCS-SHU 201	Planning Global Cities	4
SOCS-SHU 203	Global Urbanism	4
SOCS-SHU 207	Urban and Architectural Design in China	4
SOCS-SHU 208	Cities at Crossroads: Environmental Challenges and Opportunities in Cities	4
SOCS-SHU 247	Computational Urban Science	4
SOCS-SHU 303	Aviation and Society	4
SOCS-SHU 394	Slums, Suburbs, and Supertalls: Housing in the 21st Century	4

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
CCSF-SHU 101L	Global Perspectives on Society	4
Core Course		4
Core Course		4
Chinese or EAP		4
Credits		16
2nd Semester/Term		
WRIT-SHU 102	Writing as Inquiry	4
Social Science Foundational Course		4
Core Course		4

Chinese or EAP		4
Credits		16
3rd Semester/Term		
WRIT-SHU 201	Perspectives on the Humanities	4
Social Science Foundational Course		4
Social Science Core Course		4
Chinese or Core Course		4
Credits		16
4th Semester/Term		
Core Course		4
Social Science Core Course		4
Social Science Methods Course		4
Chinese or Core Course ¹		4
Credits		16
5th Semester/Term		
Core Course		4
Social Science Focus Course		4
General Elective		4
General Elective		4
Credits		16
6th Semester/Term		
Social Science Focus Course		4
Core Course		4
General Elective		4
General Elective		4
Credits		16
7th Semester/Term		
Social Science Senior Seminar		4
Social Science Methods Course		4
Social Science Focus Course		4
General Elective		4
Credits		16
8th Semester/Term		
Social Science Capstone Seminar		4
Core Course		4
General Elective		4
General Elective		4
Credits		16
Total Credits		128

Learning Outcomes

Upon completion of this program, students will be able to:

1. Identify individual, cultural, social, economic, and political forces that shape our world, in both historical and contemporary perspective, with a demonstrated appreciation of China and its relation to the region and the world.
2. Demonstrate a familiarity with social science approaches to the study of behavior, sociality, exchange, and governance.
3. Use modes of inquiry found in professional literature as a means of evaluating social science problems.
4. Compare concepts and methods to analyze substantive domains of social science study, including conflict, trade, family, environment, healthcare, and human rights.
5. Engage in the collection and presentation of data from primary and secondary sources.
6. Interpret data through various forms of evidence by employing qualitative and quantitative methods by means of appropriate research design, rigorous investigation, and critical analysis of a wide range of social phenomena.

7. Utilize skills developed through PLOs 1-6 to formulate a research question, identify primary and secondary sources relevant to the question, construct a research strategy to address the question in light of these sources, and carry out the research leading to a research-based product (e.g., written paper, oral presentation).

Policies

Program Policies

Prerequisite Courses for Declaring a Major

Final grade of C/ current semester midterm grade of B or higher in Social Science foundational course.

Social Science (BA) Policies

Students who complete two Social Science Core Courses may use additional Core Courses to complete the Focus Courses requirement, if appropriate, for their approved choice of focus.

Students may only fulfill 4 of the 8 required credits with SOCS-SHU 210 Statistics for the Behavioral & Social Sciences, MATH-SHU 235 Probability and Statistics, or BUSF-SHU 101 Statistics for Business and Economics. The remaining 4 credits must be from another course listed in the Methods Courses section.

Social Science and Data Science Double Major Guidelines

For students pursuing double majors, there can be no more than two courses double-counted between the primary and secondary majors. Students who are interested in pursuing a Social Science major (with Political Science, or Psychology Track) along with a Data Science major (with concentration in Political Science or Psychology) have the option to double-count more than two courses between the majors. Students would need to complete course requirements for both majors. The following courses are allowed to double counted toward both majors:

Social Science and Data Science (Concentration in Political Science)

- SOCS-SHU 150 Introduction to Comparative Politics
- SOCS-SHU 160 Introduction to International Politics
- BUSF-SHU 101 Statistics for Business and Economics **or** MATH-SHU 235 Probability and Statistics

Social Science and Data Science (Concentration in Psychology)

- PSYC-SHU 101 Introduction to Psychology
- BUSF-SHU 101 Statistics for Business and Economics **or** MATH-SHU 235 Probability and Statistics
- SOCS-SHU 350 Empirical Research Practice
- Choose One:
 - SOCS-SHU 334 Legal Psychology **or**
 - PSYC-SHU 234 Developmental Psychology **or**
 - PSYC-SHU 352 Psychology of Human Sexuality

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Social Science (Minor)

Program Description

Social scientists study human interactions among individuals, families, communities, nations, and the built and natural environments. Using a range of analytical, interpretive, and experimental tools from anthropology, economics, epidemiology, political science, psychology and sociology, social scientists seek to understand conflict and cooperation, epidemics of disease and poverty, social organization and social change, kinship and belonging, human development, systems of exchange, and other enduring questions at the center of our shared humanity.

Students who complete the Social Science major at NYU Shanghai will be prepared to pursue careers and advanced study in fields as diverse as anthropology, business, development, economics, education, environmental studies, journalism, law, psychology, political science, public health, public service, sociology, and social policy. The major offers students a unique opportunity to explore broad areas of social science research and thought, while also allowing a concentration in one of multiple tracks within the major. The Social Science major encourages interdisciplinary inquiry into the complex problems of our contemporary world and the cross-disciplinary exchange that is at the heart of many of the most interesting advances in social science research today.

Social Science majors at NYU Shanghai develop competence in a variety of research tools in two methods courses and complete two interdisciplinary core courses unique to the major. Social Science majors select two foundational courses in the social science disciplines, and three focus courses in one track to deepen their intellectual specialization (tracks include: anthropology, environmental studies, global public health, international relations, political economy, political science, psychology, sociology, or urban studies)¹. China – its peoples and politics – is an important focus for teaching and learning in the major, but the Social Science Area is purposefully global in perspective and heterogeneous in the methodological and analytical scope of its course offerings. Social Science majors complete an independent research project as a senior year capstone.

Program Requirements

Course	Title	Credits
Select one Social Science Methods course		4
Select three courses from the Social Science Foundations, Core, or Focus courses.		12
Total Credits		16

Social Science Methods Courses

Code	Title	Credits
BUSF-SHU 101	Statistics for Business and Economics	4
BUSF-SHU 310	Data Science for Social and Information Networks	4
ECON-SHU 216	Introduction to Game Theory	4
ECON-SHU 301	Econometrics	4
ECON-SHU 416	Game Theory: Advanced Applications	4
GCHN-SHU 133	Visualizing Global China	4
HIST-SHU 103	Oral History: Method and Practice	4
MATH-SHU 235	Probability and Statistics	4
SOCS-SHU 141	Methods of Social Research	4
SOCS-SHU 175	Qualitative Methods in Social Sciences	4

SOCS-SHU 190	Introduction to the Computational Social Science Methods	4	HIST-SHU 265	The Emergence of the Modern Middle East and North Africa	4
SOCS-SHU 205	Fundamentals of Spatial Analytics	4	HIST-SHU 310	The Birth of Psychology	4
SOCS-SHU 206	Mapping and Spatial Analysis	4	HIST-SHU 325	The New Cold War History	4
SOCS-SHU 210	Statistics for the Behavioral & Social Sciences	4	HUMN-SHU 182	Contemporary East Asian Media Culture	4
SOCS-SHU 213	Applied Social Network Analysis	4	HUMN-SHU 184	Urban Geography	4
SOCS-SHU 215	Pixelizing Societies from Space: Remote Sensing Perspectives	4	HUMN-SHU 212	Paper City: Examining Urban Bureaucracies Ethnographically	4
SOCS-SHU 218	Data Management for Quantitative Social Science	4	IMBX-SHU 261	Global Media and International Law	4
SOCS-SHU 240	Survey Research Methods	4	NEUR-SHU 131	Neural Bases of Speech and Language	4
SOCS-SHU 247	Computational Urban Science	4	NEUR-SHU 222	Perception	4
SOCS-SHU 318	Ethnographic Methods	4	PSYC-SHU 101	Introduction to Psychology	4
SOCS-SHU 350	Empirical Research Practice	4	PSYC-SHU 201	Social Psychology	4
Social Science Foundational, Core, and Focus Courses			PSYC-SHU 210	Psychotherapy Theories & Research	4
Code	Title	Credits	PSYC-SHU 220	Cognitive Psychology	4
ART-SHU 250	Visual Culture and Social Art Practice: Collaborations and Community Interactions	4	PSYC-SHU 234	Developmental Psychology	4
BPEP-SHU 9042	The Political Economy of East Asia	4	PSYC-SHU 238	Abnormal Psychology	4
BUSF-SHU 228	Sustainable Finance: Climate-Conscious and Long-Term Investing	3	PSYC-SHU 300	Psychology of Justice	4
CENG-SHU 352	Emerging Technologies for Smart Cities	4	PSYC-SHU 317	Psychology of Sexual Orientation and Gender Diversity	4
ECON-SHU 1	Principles of Macroeconomics	4	PSYC-SHU 329	Parenting and Culture	4
ECON-SHU 3	Microeconomics	4	PSYC-SHU 337	Adolescent Development	4
ECON-SHU 10	Intermediate Microeconomics	4	PSYC-SHU 344	Psychology of Human-Machine Communication and Relationships	4
ECON-SHU 202	Intermediate Macroeconomics	4	PSYC-SHU 349	Cultures of Psychology	4
ECON-SHU 218	International Trade and the Chinese Economy	4	PSYC-SHU 352	Psychology of Human Sexuality	4
ECON-SHU 222	Cooperation, Coordination, Collective Action	4	PSYC-SHU 360	Evolutionary Psychology	4
ECON-SHU 225	Advanced Economic Theory	4	PSYC-SHU 365	Emotional Development	4
ECON-SHU 238	History of Modern Economic Growth: Exploring China From a Comparative Perspective	4	PSYC-SHU 382	Psychotherapy Skills Practice	4
ECON-SHU 239	China's Economic Transition	4	SOCS-SHU 101T	Topics in Psychology: Human Nature and Genocide: A case study in critical social psychology	4
ECON-SHU 251	Economics of Global Business	4	SOCS-SHU 110	Introduction to Sociology	4
ECON-SHU 255	Political Economy: Foundations and Recent Applications	4	SOCS-SHU 130	Introduction to Political Theory	4
ECON-SHU 335	Development Economics	4	SOCS-SHU 133	Urbanization in China	4
ECON-SHU 353	Public Economics	4	SOCS-SHU 135	Environment and Society	4
ECON-SHU 368	Financial Economics	4	SOCS-SHU 136	Human Society and Culture	4
ECON-SHU 416	Game Theory: Advanced Applications	4	SOCS-SHU 145	Foundations of Public Policy	4
GCHN-SHU 123	Contemporary Chinese Political Thought	4	SOCS-SHU 150	Introduction to Comparative Politics	4
GCHN-SHU 126	The Media in China	4	SOCS-SHU 160	Introduction to International Politics	4
GCHN-SHU 216	Psychology and Modernity in China	4	SOCS-SHU 170	Introduction to Global Health	4
GCHN-SHU 226	Queer China	4	SOCS-SHU 190	Introduction to the Computational Social Science Methods	4
GCHN-SHU 243	China and the Environment	4	SOCS-SHU 199	Global Transportation	4
GCHN-SHU 246	Youth and Consumer Culture in China	4	SOCS-SHU 201	Planning Global Cities	4
GCHN-SHU 248	Animals and Chinese Religion	4	SOCS-SHU 203	Global Urbanism	4
GCHN-SHU 250	Geographies of China	4	SOCS-SHU 204	Environmental System Science	4
GCHN-SHU 277	Medicine in China	4	SOCS-SHU 207	Urban and Architectural Design in China	4
GCHN-SHU 311	Global Connections: Shanghai	4	SOCS-SHU 208	Cities at Crossroads: Environmental Challenges and Opportunities in Cities	4
HIST-SHU 130	Arab-Islamic Influence on the West	4	SOCS-SHU 211	Land and Law in China and the United States	4
HIST-SHU 188	Empires in World History	4	SOCS-SHU 213	Applied Social Network Analysis	4
HIST-SHU 205	History of Modern Medicine	4	SOCS-SHU 219	Family and Society	4
HIST-SHU 230	Life beyond Earth: Extraterrestrials since 1897	4			

SOCs-SHU 220	Law and Society in the U.S.	4
SOCs-SHU 222	International Political Economy	4
SOCs-SHU 223	Discrimination and Societal Analysis	4
SOCs-SHU 224	Climate Change and Society	4
SOCs-SHU 227	Inequality and Society	4
SOCs-SHU 228	Merchants, Chiefs, and Spirits	4
SOCs-SHU 229	Capitalism, Socialism, Communism: Theory and Practice	4
SOCs-SHU 230	Science in Environmental Policy	4
SOCs-SHU 232	International Law and Institutions	4
SOCs-SHU 234	Image as Evidence	4
SOCs-SHU 236	The Chinese Family	4
SOCs-SHU 237	China Meets Europe	4
SOCs-SHU 241	Cultures of Business and Work	4
SOCs-SHU 242	Globalization and the Rise of China	4
SOCs-SHU 244	Anthropology of Mental Illness	4
SOCs-SHU 245	Ethnographic Thinking	4
SOCs-SHU 247	Computational Urban Science	4
SOCs-SHU 250	Why Is It So Hard to Do Good?	4
SOCs-SHU 252	Ethics and Global Governance	4
SOCs-SHU 253	Nature in Social Thought	4
SOCs-SHU 254	Ethnographies of Change in China	4
SOCs-SHU 260	Contemporary Challenges in Global Health	4
SOCs-SHU 262	Digital Health, Digital Interventions	4
SOCs-SHU 265	Population and Society	4
SOCs-SHU 270	Social Change in Contemporary China	4
SOCs-SHU 272	The U.S. Constitution: Is It relevant to China?	4
SOCs-SHU 275	US-China Relations	4
SOCs-SHU 278	Finding Sociology in Chinese Cities: Shanghai and Hong Kong	4
SOCs-SHU 280	Population Issues in Asia	4
SOCs-SHU 289	From Soil to Society: Exploring Earth Systems and Human Factors	4
SOCs-SHU 291	Language and Politics	4
SOCs-SHU 294	Infectious Diseases: From Pathogen to Pandemic	4
SOCs-SHU 303	Aviation and Society	4
SOCs-SHU 306	Pestilence: Critical Perspectives in Global Health	4
SOCs-SHU 315	From Theory to Practice: Program Development & Evaluation	4
SOCs-SHU 326	Poverty and Inequality Around the Globe	4
SOCs-SHU 328	Sexuality in the Digital Age	4
SOCs-SHU 330	Urban Political Ecology	4
SOCs-SHU 331	Politics in China	4
SOCs-SHU 332	Global Mental Health	4
SOCs-SHU 333	Global Environmental Politics	4
SOCs-SHU 334	Legal Psychology	4
SOCs-SHU 339	Comparative Revolutions	4
SOCs-SHU 340	Comparative Constitutions	4
SOCs-SHU 341	Cross-Strait Relations	4
SOCs-SHU 345	Organizations and Society	4
SOCs-SHU 352	Society on Trial - Significant Legal Trials in History	4
SOCs-SHU 353	Urban Design Studio: Pocket Space in Shanghai	4
SOCs-SHU 360	The City and Society	4

SOCs-SHU 361	Education and Society	4
SOCs-SHU 370	China's Foreign Policy	4
SOCs-SHU 375	Health and Society	4
SOCs-SHU 378	Feminist Social Theory	4
SOCs-SHU 380	International Relations of the Asia-Pacific	4
SOCs-SHU 383	Children and the Legal System	4
SOCs-SHU 388	Chinese Social Stratification in Comparative Perspective	4
SOCs-SHU 391	International Investment in Developing Countries: China and Africa	4
SOCs-SHU 394	Slums, Suburbs, and Supertalls: Housing in the 21st Century	4

Policies

Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (p. 18).

Student Services

Registration

Registrar's Office

The NYU Shanghai Registrar's office provides academic services and information on registration throughout the year. Any student with a question or problem is invited to come to the Registrar's office at N928 for assistance or to view it (<http://shanghai.nyu.edu/academics/registration/>) its website (<http://shanghai.nyu.edu/academics/registration/>). Office hours are weekdays from 9:00am to 11:30am, and 1:00pm to 5:30pm.

Students can complete their initial registration through Albert, NYU's online registration system, at NYU Home (<http://home.nyu.edu/>). Students can also use Albert to make later adjustments to their schedule.

Program of Study

NYU Shanghai students will take 128 credits of coursework to graduate; these courses will be distributed among core curriculum requirements,

major requirements, and general electives. Students will typically complete the core curriculum during their first two years and the bulk of their major requirements during their second two years. Students considering some of the STEM majors (Science, Technology, Engineering, and Mathematics), however, may take longer to complete the core courses since they must begin taking required courses in their intended major as early as the first semester.

New Students

Newly admitted students will complete an online academic advising module early in the summer to prepare for upcoming registration and course selections. A few weeks before registration, students will be assigned an academic advisor, with whom they can meet individually to discuss their class schedule, course planning, and any academic questions they may have. Additional summer advising programs will be hosted to support new students' academic transition to college.

Continuing Students

Students currently enrolled in NYU Shanghai register in November for the spring term and in April for the fall term. Before registering, students should plan a provisional schedule and put it in the "shopping cart" function of Albert. They should also discuss their program and courses with their advisor, who then clears them for registration. Students may use the "validate" function in Albert to validate all of the courses they would like to enroll in before their appointed registration time. At the appointed time or thereafter, students access Albert to finalize the course enrollment process. Students should complete registration by paying their tuition and fees. Online tuition statements and payment options are available through the Office of the Bursar. Students are also responsible for clearing other registration holds such as library holds.

Health Insurance and Immunization Policy

All full-time students must be in compliance with NYU Shanghai's health insurance and immunization requirements. For pre-registration immunization requirements, please see Shanghai Students (<https://www.nyu.edu/students/health-and-wellness/next-stop-health-requirements/shanghai.html>). If a student fails to comply, the student will not be allowed to register for classes until he or she is in full compliance. If the student does not receive clearance to register before the registration deadline for the semester, he or she will not be able to register and take classes until the next semester that they are in compliance. This policy includes first semester freshmen entering NYU Shanghai. The health insurance and immunization requirements of some study away sites and portal campuses may vary from those at NYU Shanghai. Students must be in compliance with those requirements during their semester abroad in order to be eligible for studying away at that site or campus.

Academic Advising

Academic advising is the process through which NYU Shanghai provides the necessary resources for students to make thoughtful choices in their academic studies. The primary purpose of academic advising is to assist students as they develop meaningful educational plans compatible with their life goals. Although the NYU Shanghai curriculum is well-defined, there will be opportunities, both within and beyond curricular constraints, for students to participate in courses and activities that support their academic and personal development.

While the ultimate responsibility for making decisions about life and educational plans rests with each individual student, academic advisors and faculty mentors assist students by suggesting options and by

discussing possible outcomes of the choices they make. Students can expect that their academic advisors and faculty mentors in the majors will help them:

- Define academic goals and evaluate progress towards those goals;
- Understand academic policies and requirements, provide guidance during course selection, and provide help with identifying other meaningful educational experiences;
- Identify institutional and community support services for assistance if necessary;
- Monitor progress as they move through the undergraduate program.

Each semester, students are required to communicate with their academic advisor (and first and second year students to meet with their advisor) to review their registration plan for the following semester and ensure that they are making normal progress towards their degree. It is the individual student's responsibility to make certain that he or she fulfills the requirements for graduation.

A first year advising program provides individual advising for new students entering in August. Each student is assigned an advisor who can provide information and support during the transition to college. The advisors serve as a liaison with other offices and can make referrals when appropriate. Advisors are therefore the best source for students to visit when they are unsure of where to go for help. Throughout the year, students needing additional assistance may also make an individual appointment with the Assistant Dean for Academic Affairs.

The Academic Resource Center

The Academic Resource Center (ARC) provides tutoring services to students looking to reach their highest academic potential. Students can schedule a meeting through NYU Connect, or drop by the ARC, for the following:

- Individual and small-group tutoring in over 30 Math, Computer Science, Sciences, Business, Economics, Interactive Media Arts, and Chinese Language courses
- Individual writing, speaking, reading, and listening consultations at any stage of the learning process
- Academic skills coaching in areas such as critical reading, note-taking strategies, goals setting and time management
- Workshops on writing, close reading, presentation, time management, etc.

Students are also welcome to study on their own in the comfortable, supportive atmosphere of the Academic Resource Center.

Center for Career Development

The NYU Shanghai Center for Career Development (CCD) offers innovative and personalized career education and guidance to all undergraduate and graduate students. Guided by NYU's educational philosophy of liberal arts, commitment to research, and objective to nurture global citizens, the center encourages students to actively explore their career interests and enhance their global employability. Additionally, the center works closely with employers, alumni, and professors, connecting students with a wealth of resources and opportunities to support their career development goals.

Individual Appointment

Students may sign up for individualized appointments with a career coach throughout the year on Handshake. An appointment with a career coach can help students with any of the following topics:

- Identifying and exploring career interests;
- Setting professional goals and developing an individual timeline;
- Effectively searching for internships and jobs in a particular field;
- Editing resumes and cover letters;
- Participating in a mock interview;
- Performing assessments to identify strengths, skills and interests;
- Exploring preprofessional and graduate school options.

CareerLab

Students have access to a series of career online courses, a variety of useful digital platforms and resources in the CareerLab, which support their career development at different stages.

Besides coaching appointments, students may find many other ways to gain professional skills and build connections to expand their network. The CCD offers robust career-related programming during the academic year including; career speakers, industry panels, skills workshops, alumni mentor matching, internship grants, and much more. Some of the highlighted programmes include: Career Fairs, Career Kick Start Workshops, Distinguished Industry Speaker Series, NYU Executive Alumni Mentor Program, I AM LIMITLESS Conference, Industry Interest Groups, Diversity and Inclusion Career Hub, and Social Impact Internship Grant.

Experiential Learning

One defining characteristic of the NYU educational experience is the opportunity students have to apply their classroom learning to real-life experiences in a variety of professional and community service settings. Shanghai provides such opportunities in abundance, and NYU Shanghai takes full advantage of its location in one of the financial, cultural, scientific, and media capitals of the world.

Many different types of opportunities are available to students; some involve volunteerism on the part of a student and some may be paid positions. Depending on their professional goals, students may choose to pursue off-campus internships, community service positions, research projects, competitions, conferences, and many other opportunities. For the purpose of securing and making the most of such opportunities, students should consider the following guidance.

Internship Regulations

The visa requirements of the People's Republic of China do not allow international students to hold off-campus part-time jobs or paid internships. International students who wish to participate in off-campus internships must follow the Internship Registration Process to ensure that the position meets legal criteria and is registered with the Chinese government. There are currently no restrictions on Chinese national students participating in paid positions.

Voluntary or Community Service

Certain organizations encourage students to work on a volunteer basis to gain experience and to provide needed assistance to the organization. This type of arrangement is common, for example, in government and not-for-profit organizations. Such internships are valued, sometimes even

required, for admission to some professional schools, but NYU Shanghai awards no credit for them.

Community-Engaged Learning

NYU Shanghai supports community-engaged learning components in academic courses and facilitates academic service learning experiences. We encourage students to seek out opportunities during their college career to apply their academic learning to understanding real world needs and interacting with local communities in the city of Shanghai and beyond. These include faculty-led immersive learning trips and experiential learning opportunities that enhance academic study and research.

Preprofessional, Accelerated and Specialized Programs

Premedical and Health Studies Program

It is important to understand that health-related preprofessional training does not require students to major in science or math. Students may elect to major in any discipline and complete the courses needed to apply for health-related professional schools in parallel. They should choose a disciplinary major that they will enjoy and in which they will excel. If they enjoy the sciences, choosing a major in those areas may be the right decision for them. If, however, they have other interests or talents, they will demonstrate their versatility and increase their chances of excelling by pursuing a major in their area of interest along with completing the premedical and health curriculum.

NYU Shanghai, like many American colleges and universities, does not offer premedical, pre dental, or other prehealth majors. In fact, the best professional schools want, above all, students with a broad education who can think clearly, read critically, and write well.

Academic advisors and faculty mentors help students to explore their options, advise them about programs and appropriate course selection, and help them to present the best possible application to professional schools. Students should be aware that it is extremely difficult for applicants who are not U.S. citizens or permanent U.S. residents to gain admission to medical school in the U.S. Other health professional schools in the U.S. have more hospitable admissions policies, such as schools of dentistry and MD/PhD programs.

The following NYU courses are equivalent to the basic set of requirements most medical schools in the U.S. request. In general, most medical schools will expect applicants to have completed one year of biology, one year of physics, and two years of chemistry (through organic chemistry). However, specific medical schools may have additional requirements or modifications to those listed here. Students should carefully research the schools they are interested in for more information.

Suggested Courses for Application to Medical School:

- Foundations of Physics I & II Honors/General Physics I & II
- Foundations of Physics Lab I & Physics Lab II
- Foundations of Chemistry I & II
- Foundations of Chemistry I Lab & Chemistry II Lab
- Foundations of Biology I & II
- Foundations of Biology Lab
- Organic Chemistry I & II
- Biochemistry I

In addition, many schools expect students to have taken the following courses:

- Calculus
- One Statistics Course (e.g., Probability and Statistics, Biostatistics)
- Introduction to Psychology
- Introductory sociology course (e.g., Introduction to Sociology, Sociology of Medicine, Health & Society in a Global Context)
- Two writing courses. These courses cannot include Creative Writing and need to focus on writing or interpreting advanced texts. They may be a combination of one or two Humanities or Global China Studies courses focused on writing.

Pre-law Program

Prospective law students are free to choose from the wide variety of courses offered at NYU Shanghai. NYU endorses the position of the Association of American Law Schools that a single “best” preparation for law school cannot be recommended. As a result, there is no prescribed pre-law curriculum.

Purpose of Pre-law Study: While NYU Shanghai considers the prescription of particular courses unwise, it does advise taking courses that require extensive reading, research, and writing. The Core Curriculum is an excellent beginning for pre-law students as it offers a rigorous and multidisciplinary foundation for advanced study in the humanities, social sciences, and natural sciences. No matter what one majors in, law schools value a well-rounded liberal arts education, so students should choose their electives wisely. For example, the precision of methodology and thought required of students in mathematics, computer science, logic, and the natural sciences will aid in the development of analytic skills, while a background in the behavioral sciences and the humanities (such as politics, economics, history, literature, philosophy, anthropology, and sociology) will offer a deeper understanding of human institutions and values, as well as opportunities for critical thinking and writing.

Counseling

Student Health Center

The Student Health Center is available for all students and no appointment is necessary. Counseling services are free on a voluntary basis for any student enrolled in NYU Shanghai. When necessary, medication and outside referrals are available. All conversations are kept strictly confidential. The Student Health Center wellness counselors provide health-related advice and assistance in workshops, as well as in group and individual counseling.

The social and emotional conflicts that occur in a person's life occasionally prevents an individual from functioning optimally. Concerns about interpersonal relationships, poor grades or other academic problems, feelings of inadequacy, anxiety, loneliness, sexual problems, eating disorders, substance abuse, and family and/or marriage conflicts are difficulties any individual might encounter. Wellness counselors provide an atmosphere where personal concerns can be examined and discussed freely and confidentially.

The Student Health Center at NYU Shanghai is committed to promoting a safe, informed, healthy and happy university community, by providing an array of professional services tailored to support our student's needs during their university life at NYU Shanghai. The Student Health Center is located on the 6th floor of the academic building and is open Monday

to Friday 8:30 a.m. - 5:30 p.m. The Center is staffed by highly trained professionals who are focused on supporting the needs of students.

The Student Health Center's programs address the issues impacting students from a physical, emotional and health knowledge perspective and provide activities and resources that empower the students to achieve their academic potential.

The transition to adulthood and the navigation of college life presents wonderful opportunities, but can sometimes cause stress and varying emotions. We are also mindful of the great opportunities and added challenges of being a student in a mega city like Shanghai.

The Student Health Center provides medical and counseling support and promotes health knowledge through skills focused training and learning workshops in a warm and welcoming environment. All health services are confidential and offered to students free of charge. Walking-in hours and professional counseling appointments are offered to all students.

The Wellness Exchange is a 24 hour counseling hotline - all students can call for support. Tel: 021 2059 9999

Students with Disabilities

NYU is committed to providing equal educational opportunity and participation for students with disabilities. It is NYU Shanghai's policy that no qualified student with a qualified disability be excluded from participating in any NYU Shanghai program or activity, denied the benefits of any NYU Shanghai program or activity, or otherwise subjected to discrimination with regard to any NYU Shanghai program or activity.

The Moses Center for Student Accessibility in New York determines qualified disability status and assists students in obtaining appropriate accommodations and services. The Moses Center operates according to an Independent Living Philosophy and strives in its policies and practices to empower each student to become as independent as possible. Their services are designed to encourage independence, backed by a strong system of support.

Students who need a reasonable accommodation based on a qualified disability are required to register with the Moses Center for assistance. They should contact shanghai.academicaccommodations@nyu.edu with any questions about registering.

Orientation

Orientation will be held in Shanghai in the week prior to the start of the fall semester. The primary goals of this program are: to help new students smoothly transition to college life by introducing students to NYU Shanghai's liberal arts and sciences curriculum; provide information and resources to help students settle down in a new living and learning environment; help students get to know their peers; and foster an understanding and appreciation of the diverse community at NYU Shanghai. In addition to lectures and panels on academic and university resources, students will also benefit from a series of fun events, dialogues and tours during the orientation week.

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